SHARP®

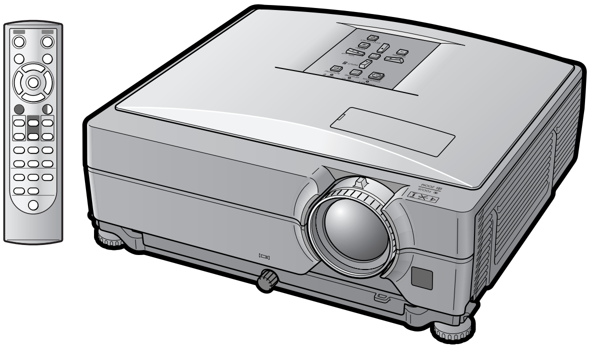
DATA PROJECTOR

MODEL

XG-C455W
PG-C355W

OPERATION MANUAL

Notevision



PJLink™

IMPORTANT

- For your assistance in reporting the loss or theft of your Projector, please record the Model and Serial Numbers located on the bottom of the projector and retain this information.
- Before recycling the packaging, please ensure that you have checked the contents of the carton thoroughly against the list of “Supplied accessories” on page **10**.

Model No.:

Serial No.:

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 10A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♡ or ◈ and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 10A socket outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

WARNING:

THIS APPARATUS MUST BE EARTHED.

IMPORTANT:

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow : Earth / Blue : Neutral / Brown : Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

The supplied CD-ROM contains operation instructions in English, German, French, Spanish, Italian, Dutch, Swedish, Portuguese, Chinese and Korean. Carefully read through the operation instructions before operating the projector.

Die mitgelieferte CD-ROM enthält Bedienungsanleitungen in Englisch, Deutsch, Französisch, Spanisch, Italienisch, Niederländisch, Schwedisch, Portugiesisch, Chinesisch und Koreanisch. Bitte lesen Sie die Bedienungsanleitung vor der Verwendung des Projektors sorgfältig durch.

Le CD-ROM fourni contient les instructions de fonctionnement en anglais, allemand, français, espagnol, italien, néerlandais, suédois, portugais, chinois et coréen. Veuillez lire attentivement ces instructions avant de faire fonctionner le projecteur.

El CD-ROM suministrado contiene instrucciones de operación en inglés, alemán, francés, español, italiano, holandés, sueco, portugués, chino y coreano. Lea cuidadosamente las instrucciones de operación antes de utilizar el proyector.

Il CD-ROM in dotazione contiene istruzioni per l’uso in inglese, tedesco, francese, spagnolo, italiano, olandese, svedese, portoghese, cinese e coreano. Leggere attentamente le istruzioni per l’uso prima di usare il proiettore.

De meegeleverde CD-ROM bevat handleidingen in het Engels, Duits, Frans, Spaans, Italiaans, Nederlands, Zweeds, Portugees, Chinees en Koreaans. Lees de handleiding zorgvuldig door voor u de projector in gebruik neemt.

Den medföljande CD-ROM-skivan innehåller bruksanvisningar på engelska, tyska, franska, spanska, italienska, holländska, svenska, portugisiska, kinesiska och koreanska. Läs noga igenom bruksanvisningen innan projektorn tas i bruk.

O CD-ROM fornecido contém instruções de operação em Inglês, Alemão, Francês, Espanhol, Italiano, Holandês, Sueco, Português, Chinês e Coreano. Leia cuidadosamente todas as instruções de operação antes de operar o projetor.

附送之CD-ROM光碟中，有用英文、德文、法文、西班牙文、意大利文、荷蘭文、瑞典文、葡萄牙文、中文和韓國文所寫的使用說明書。在操作本投影機之前，請務必仔細閱讀整本使用說明書。

제공된 CD-ROM에는 영어, 독일어, 프랑스어, 스페인어, 이탈리아어, 네덜란드어, 스웨덴어, 포르투갈어, 중국어, 그리고 한국어로 작성된 조작 설명서가 포함되어 있습니다. 프로젝터를 조작하기 전에 조작 지침을 상세하게 숙지하십시오.

Before using the projector, please read this operation manual carefully.

Introduction

There are two important reasons for prompt warranty registration of your new SHARP Projector, using the REGISTRATION CARD packed with the projector.

1. **WARRANTY**
   This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.
2. **CONSUMER PRODUCT SAFETY ACT**
   To ensure that you will promptly receive any safety notification of inspection, modification, or recall that SHARP may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE.

U.S.A. ONLY

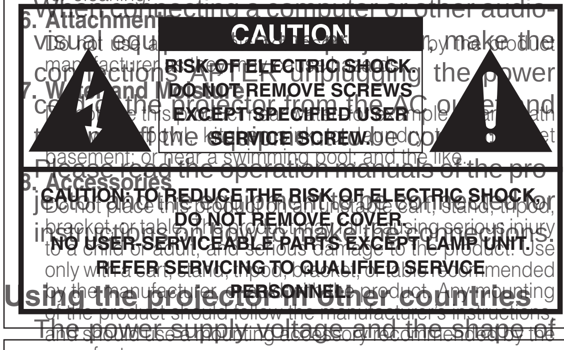
Info

- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.

WARNING: High brightness light source. Do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly into the beam of light.

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

See bottom of projector.



CAUTION

RISK OF ELECTRIC SHOCK. DO NOT REMOVE SCREWS EXCEPT SPECIFIED USER SERVICE SCREW.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk or electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

U.S.A. ONLY

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

U.S.A. ONLY

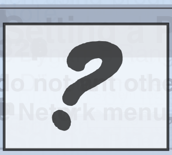
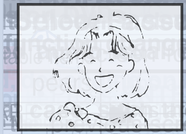
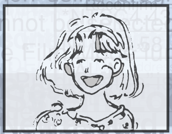
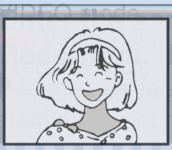
The enclosed computer cable must be used with the device. The cable is provided to ensure that the device complies with FCC Class A verification.

U.S.A. ONLY

WARNING:

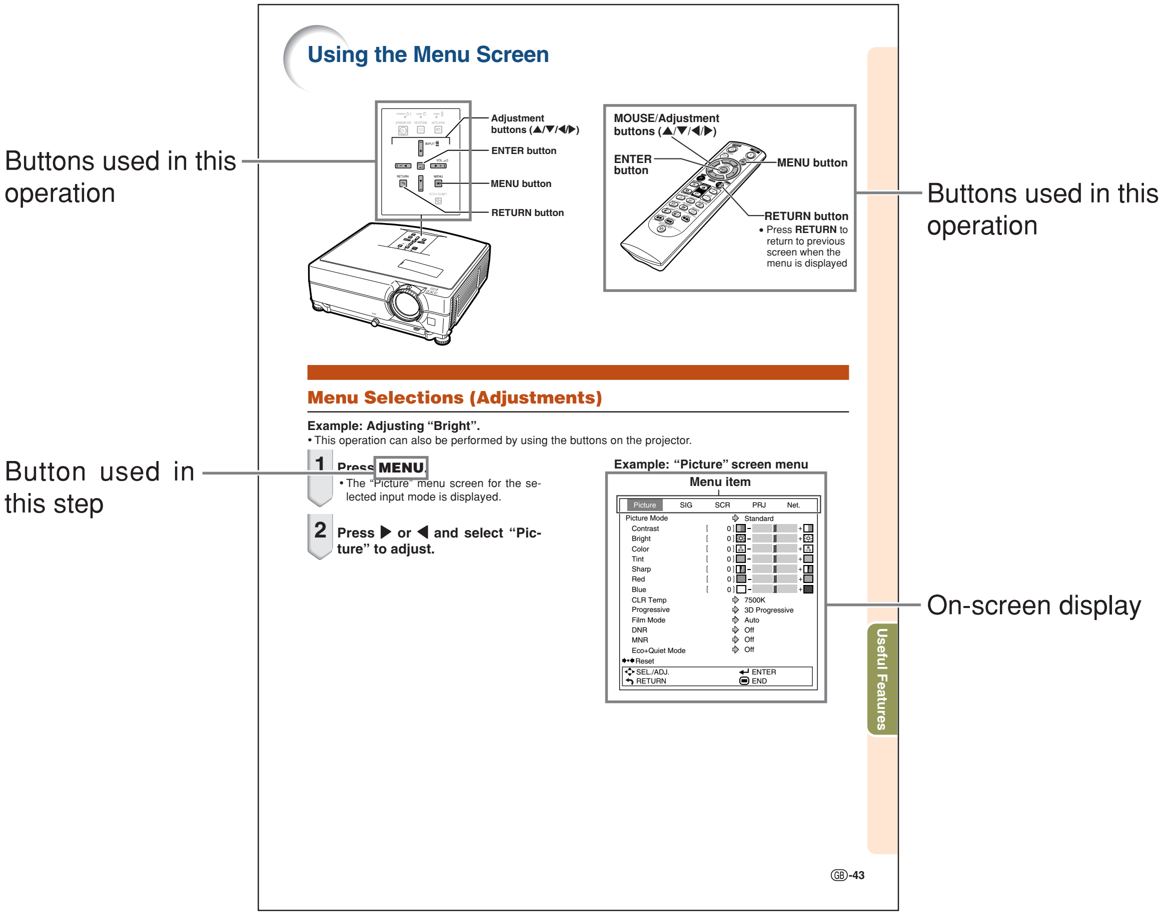
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This product utilizes tin-lead solder, and lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities, the Electronics Industries Alliance: www.eiae.org, the lamp recycling organization www.lamprecycle.org.

Problem	Check	Page
 No picture and no sound or projector does not start.	• Power to the external connected devices is off. • The selected input mode is wrong. • Cables incorrectly connected to the rear panel of the projector. • Remote control batteries have run down. • External output has not been set when connecting notebook computer. • Filter cover/lamp unit cover are not installed correctly. • If the connected DVI digital equipment is turned on before the projector, the image may not be projected properly or may be displayed with noise. Ensure that the appropriate input mode is selected on the projector before you turn on the connected equipment.	 34 29 15 23 60 24
 Sound is heard but no picture appears.	• Cables incorrectly connected. • "Bright" is set to minimum position. • Depending on the computer you use, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the computer's operation manual for how to switch the signal output setting.	29 45
 Color is faded or poor.	• Picture adjustments are incorrectly set. • Video input system is incorrectly set. (COMPUTER/COMPONENT 1, 2, DVI-D only) • Input signal type (RGB/Component) is incorrectly set.	45 48 47
 Picture is blurred; noise appears.	• Adjust the focus. • The projection distance exceeds the focus range. • There is fog on the lens. If the projector is carried from a cold room into a warm room, or if the room temperature rises suddenly, condensation may form on the lens, making the image become blurred. Please wait one hour before it is to be used. If condensation should form, disconnect the power cord from the wall outlet and wait for it to dry. • (Computer Input only) Perform "SIG-ADJ" Adjustments.	33 19 47
 Picture appears but no sound is heard.	• Cables incorrectly connected. • Volume is set to minimum. • Turn up the volume of the external device. • "Speaker" is set to "Off".	 51
Data image is not centered.	• Make the necessary adjustments in "SIG-ADJ" on the menu. • Depending on the computer you use, the output resolution signal may be different from the one you have set. For details, refer to the operation manual of the computer.	47

How to Read this Operation Manual

- **In this operation manual, the illustrations and on-screen displays are simplified for explanation. This may differ from the actual on-screen display.**


Buttons used in this operation
Buttons used in this operation
Button used in this step
On-screen display
Adjustment buttons (▲/▼/◀/▶)
ENTER button
MENU button
RETURN button
MOUSE/Adjustment buttons (▲/▼/◀/▶)
ENTER button
MENU button
RETURN button
Useful Features

Using the Menu Screen

• Press **RETURN** to return to previous screen when the menu is displayed

Menu Selections (Adjustments)

Example: Adjusting "Bright".

• This operation can also be performed by using the buttons on the projector.

1 **Press MENU.**

• The "Picture" menu screen for the selected input mode is displayed.

2 **Press ▶ or ◀ and select "Picture" to adjust.**

Example: "Picture" screen menu

Menu item

Picture SIG SCR PRJ Net.

Picture Mode	Standard
Contrast	[0]
Bright	[0]
Color	[0]
Tint	[0]
Sharp	[0]
Red	[0]
Blue	[0]
CLR Temp	7500K
Progressive	3D Progressive
Film Mode	Auto
DNR	Off
MNR	Off
Eco+Quiet Mode	Off
Reset	

SEL./ADJ. ENTER
RETURN END

GB-43

Info ....Indicates safeguards when using the projector.

Note ....Indicates additional information for setting up and operating the projector.

For Future Reference

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SETUP MANUAL

Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for details.

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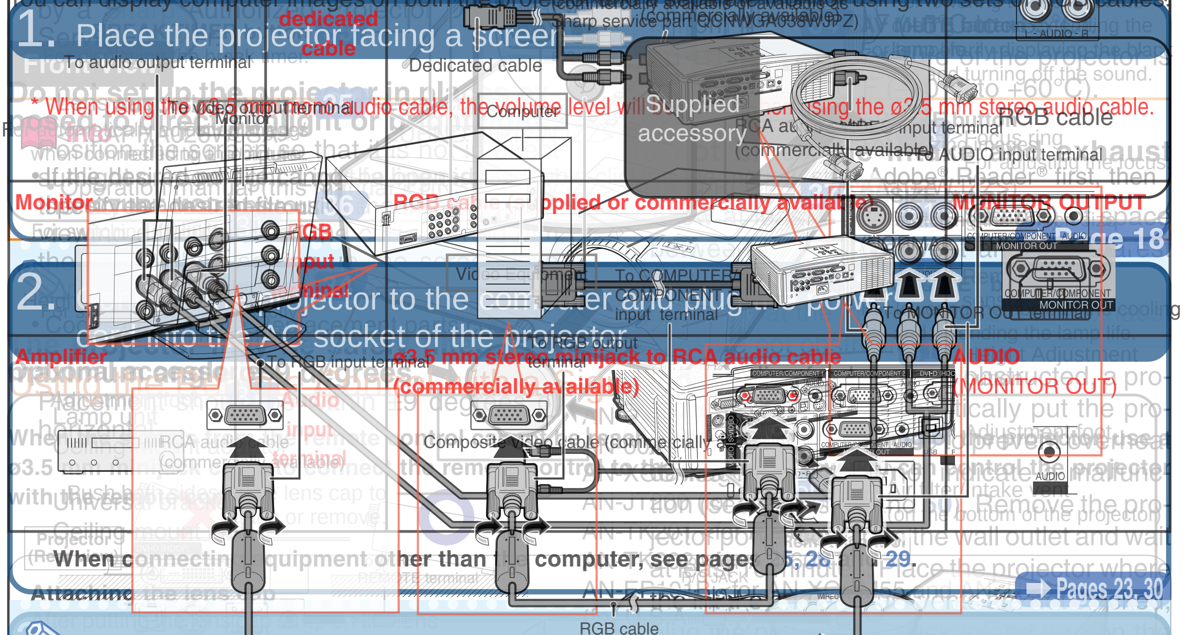
Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.



Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote function is not possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

Before using the projector, please read this operation manual carefully.

Introduction

There are two important reasons for prompt warranty registration of your new SHARP Projector, using the REGISTRATION CARD packed with the projector.

1. **WARRANTY**
   This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.
2. **CONSUMER PRODUCT SAFETY ACT**
   To ensure that you will promptly receive any safety notification of inspection, modification, or recall that SHARP may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE.

U.S.A. ONLY

WARNING: High brightness light source. Do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly into the beam of light.

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

See bottom of projector.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

U.S.A. ONLY

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

U.S.A. ONLY

The enclosed computer cable must be used with the device. The cable is provided to ensure that the device complies with FCC Class A Verification.

U.S.A. ONLY

WARNING:
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

IMPORTANT SAFEGUARDS

CAUTION: Please read all of these instructions before you operate this product and save these instructions for later use.

Electrical energy can perform many useful functions. This product has been engineered and manufactured to assure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this product, observe the following basic rules for its installation, use and servicing.

1. **Read Instructions**
   All the safety and operating instructions should be read before the product is operated.
2. **Retain Instructions**
   The safety and operating instructions should be retained for future reference.
3. **Heed Warnings**
   All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions**
   All operating and use instructions should be followed.
5. **Cleaning**
   Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments**
   Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Water and Moisture**
   Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories**
   Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. **Transportation**
   A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10. **Ventilation**
    Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. **Power Sources**
    This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Grounding or Polarization**
    This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician.
    Do not defeat the safety purpose of the plug.
    a. Two-wire type (mains) plug.
    b. Three-wire grounding type (mains) plug with a grounding terminal.
    This plug will only fit into a grounding type power outlet.
13. **Power-Cord Protection**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. **Lightning**
    For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line surges.
15. **Overloading**
    Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. **Object and Liquid Entry**
    Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
17. **Servicing**
    Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. **Damage Requiring Service**
    Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power-supply cord or plug is damaged.
    b. If liquid has been spilled, or objects have fallen into the product.
    c. If the product has been exposed to rain or water.
    d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    e. If the product has been dropped or damaged in any way.
    f. When the product exhibits a distinct change in performance, this indicates a need for service.
19. **Replacement Parts**
    When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. **Safety Check**
    Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
21. **Wall or Ceiling Mounting**
    This product should be mounted to a wall or ceiling only as recommended by the manufacturer.
22. **Heat**
    This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Caution regarding

When using the projector, take care not to subject it to hard impact and/or vibration, as this can result in damage. Take extra care with the lens. If you are not going to use the projector for a long time, make sure to unplug the power cord from the wall outlet, and disconnect any other cables connected to it.

Do not carry the projector by holding the lens.

When storing the projector, ensure you attach the lens cap to the projector. (See page 12.)

Do not expose the storage case or projector to direct sunlight or near heat sources. The projector may change color or become deformed.

Other connected equipment

When connecting a computer or other audio-visual equipment to the projector, make the connections AFTER unplugging the power cord of the projector from the AC outlet and turning off the power of the equipment to be connected.

Please read the operation manuals of the projector and the equipment to be connected for instructions on how to make the connections.

Using the projector in other countries

The power supply voltage and the shape of the plug may vary depending on the region or country you are using the projector in. When using the projector overseas, make sure you use an appropriate power cord for the country you are in.

Temperature monitor function

If the projector starts to overheat due to setup problems or blockage of the air vents, "TEMP" and will illuminate in the lower left corner of the picture. If the temperature continues to rise, the lamp will turn off, the temperature warning indicator on the projector will blink, and after a 90-second cooling-off period the projector will enter the standby mode. Refer to "Maintenance Indicators" on page 59 for details.

Info

- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.

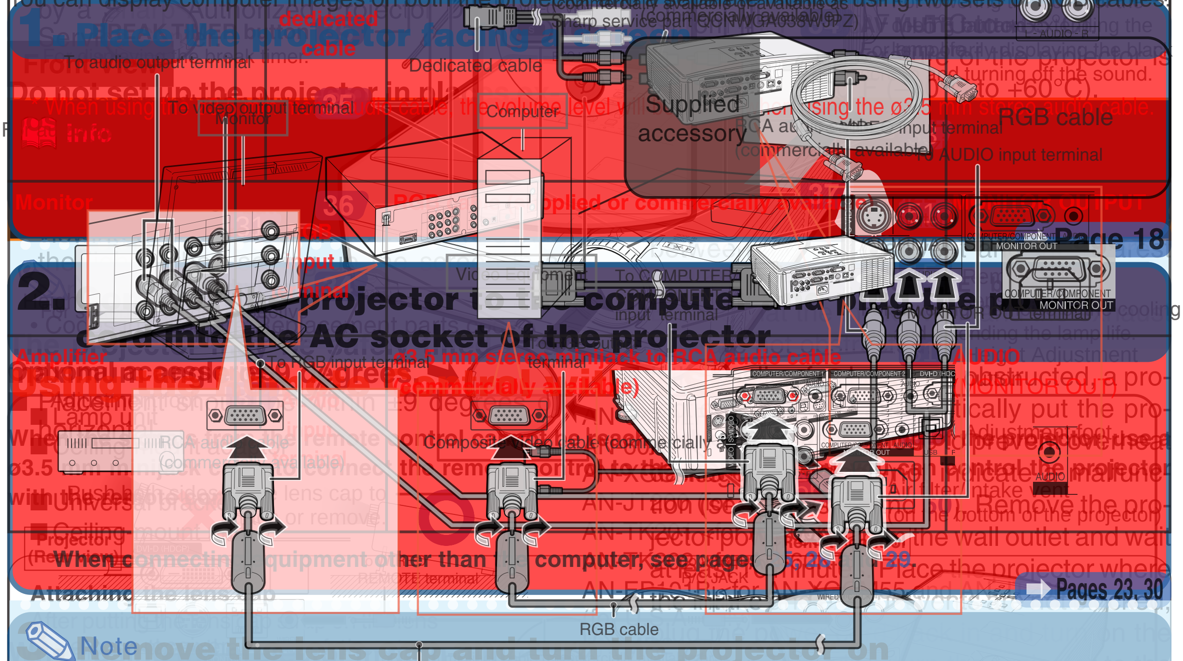
How to Access the PDF Operation Manuals

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.


Computer
Monitor
To RGB input terminal
RGB cable
Supplied accessory
RGB cable (commercially available)
COMPUTER/COMPONENT MONITOR OUT

Page 18

Pages 23, 30

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote function is not possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

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Before using the projector, please read this operation manual carefully.

Introduction

ENGLISH

There are two important reasons for prompt warranty registration of your new SHARP Projector, using the REGISTRATION CARD packed with the projector.

1. **WARRANTY**
   This is to assure that you immediately receive the full benefit of the parts, service and labor warranty applicable to your purchase.
2. **CONSUMER PRODUCT SAFETY ACT**
   To ensure that you will promptly receive any safety notification of inspection, modification, or recall that SHARP may be required to give under the 1972 Consumer Product Safety Act, PLEASE READ CAREFULLY THE IMPORTANT ÒLIMITED WARRANTYÓ CLAUSE.

U.S.A. ONLY

Info

- The cooling fan regulates the internal temperature, and its performance is automatically controlled. The sound of the fan may change during projector operation due to changes in the fan speed. This does not indicate malfunction.

WARNING: High brightness light source. Do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly into the beam of light.

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

See bottom of projector.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated Òdangerous voltageÓ within the productÕs enclosure that may be of sufficient magnitude to constitute a risk or electric shock to persons.

The exclamation point within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the userÕs authority to operate this equipment.

U.S.A. ONLY

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

U.S.A. ONLY

The enclosed computer cable must be used with the device. The cable is provided to ensure that the device complies with FCC Class A verification.

U.S.A. ONLY

WARNING:
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

12. **Grounding or Polarization**
This product is provided with one of the following types of plugs. If the plug should fail to fit into the power outlet, please contact your electrician.
Do not defeat the safety purpose of the plug.
    a. Two-wire type (mains) plug.
    b. Three-wire grounding type (mains) plug with a grounding terminal.
    This plug will only fit into a grounding type power outlet.

14. **Lightning**
For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power-line surges.

15. **Overloading**
Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

16. **Object and Liquid Entry**
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

17. **Servicing**
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

18. **Damage Requiring Service**
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power-supply cord or plug is damaged.
    b. If liquid has been spilled, or objects have fallen into the product.
    c. If the product has been exposed to rain or water.
    d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    e. If the product has been dropped or damaged in any way.
    f. When the product exhibits a distinct change in performance, this indicates a need for service.

19. **Replacement Parts**
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

20. **Safety Check**
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. **Wall or Ceiling Mounting**
This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

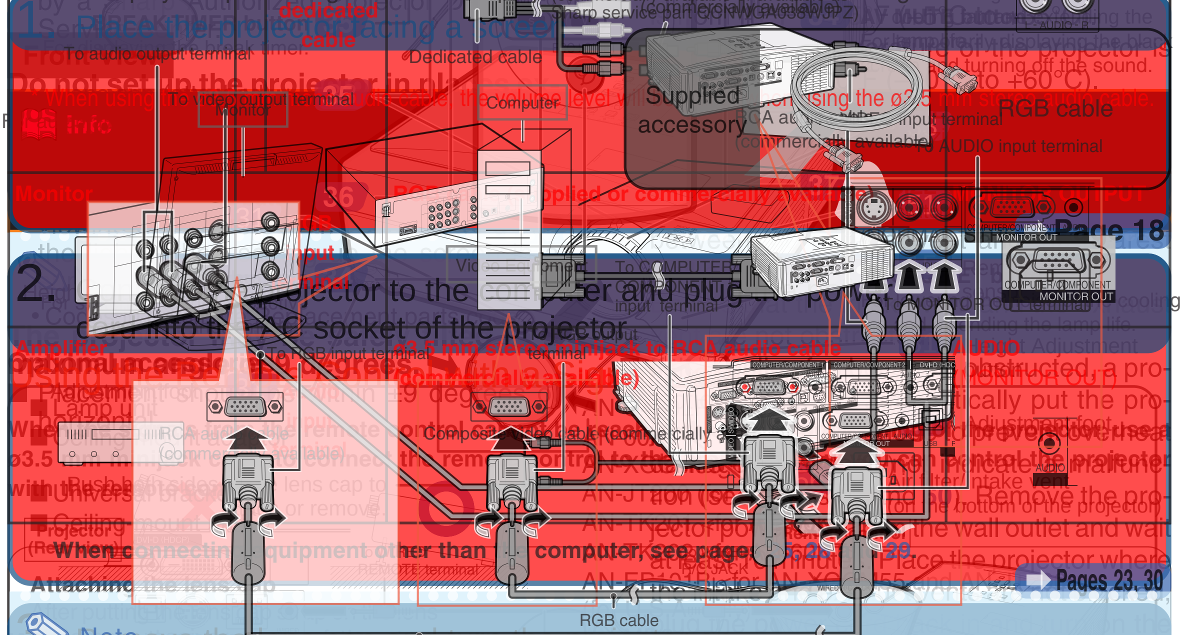
22. **Heat**
This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).


RGB cable
To COMPUTER/COMPONENT input terminal
COMPUTER/COMPONENT MONITOR OUT
RGB cable

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote function is not possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

Model		XG-C435W/PG-C355W
Display devices		[illegible] LCD panel 3
Resolution		WXGA (1280 800)
Lens	F number	1.7 [illegible]
	Zoom	[illegible]
	Focus	Manual
Input terminals	DVI-D (Compatible with HDCP)	[illegible]
	Computer/Component (mini D-sub 15 pin)	[illegible]
	S-Video (mini DIN 4 pin)	[illegible]
	Video (RCA)	[illegible]
	Audio (ø3.5 mm stereo minijack)	[illegible]
	Audio (RCA)	[illegible] (L/R)
Output terminals	Computer/Component (mini D-sub 15 pin)	[illegible]
	Audio (ø3.5 mm stereo minijack)	1 (variable audio output)
Control and communication terminals	LAN (RJ-45)	[illegible]
	USB (Type B)	[illegible]
	RS-232C (mini DIN 9 pin)	[illegible]
	Wired Remote (ø3.5 mm stereo minijack)	[illegible]
Speakers		2 W (mono)
Projection lamp		275 W
Rated voltage		AC 100 – 240 V
Rated frequency		50/60 Hz
Input current		3[illegible] A
Power consumption (Standby)		3[illegible]5 W (3.4 W) with AC 100 V 345 W (4.4 W) with AC 240 V
Operation temperature		[illegible] F to 95 F (+5 C to +35 C)
Cabinet		Plastic
Dimensions (main body only)		12 27/32" 4" [illegible] (326 101.5 279.5 mm)
Weight (approx.)		10.8 lbs. (4.9 kg)

Appendix

How to Access the PDF Operation Manuals

Connecting to a Monitor with RGB Input Terminal

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

1. Place the projector facing a screen

2. Connect the projector to the computer

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote control is not possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

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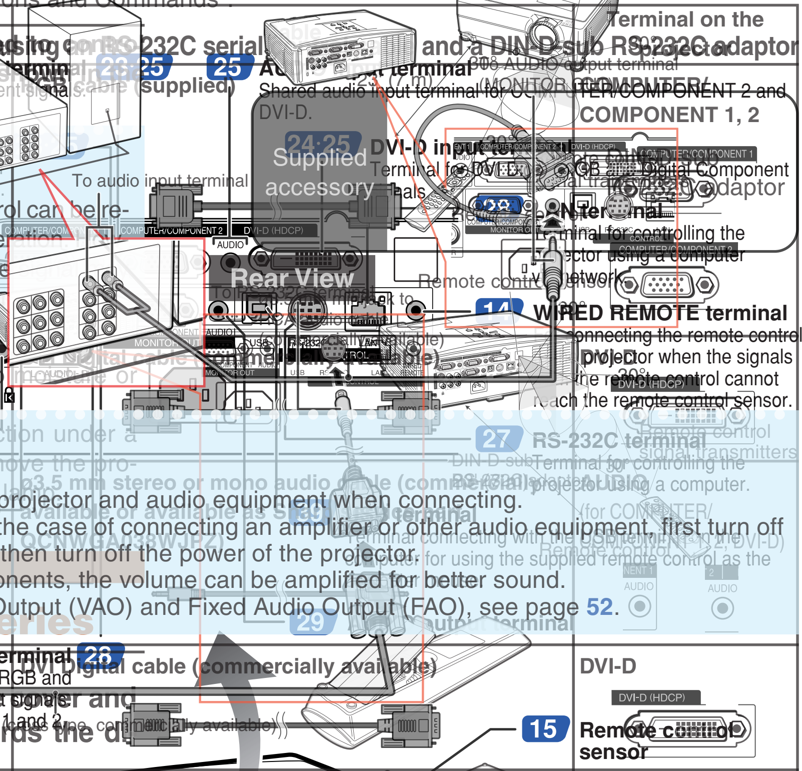
Connecting to an Amplifier or Other Audio Equipment

When the RS-232C terminal on the projector is connected to a computer, the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for "RS-232C Specifications and Commands".

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



- Turn off the power of both the projector and audio equipment when connecting.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 52.

Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.

Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

Using the Carrying Handle

When transporting the projector, carry it by the carrying handle on the side.

- Always put on the lens cap to prevent damage to the lens when transporting the projector.
- Do not lift or carry the projector by the lens or the lens cap as this may damage the lens.

- Danger of explosion if battery is incorrectly replaced.
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries. This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak. Battery fluid from leaked batteries is harmful to skin, therefore ensure you wipe them first and then remove them using a cloth.
- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

*** Using the Kensington Lock**

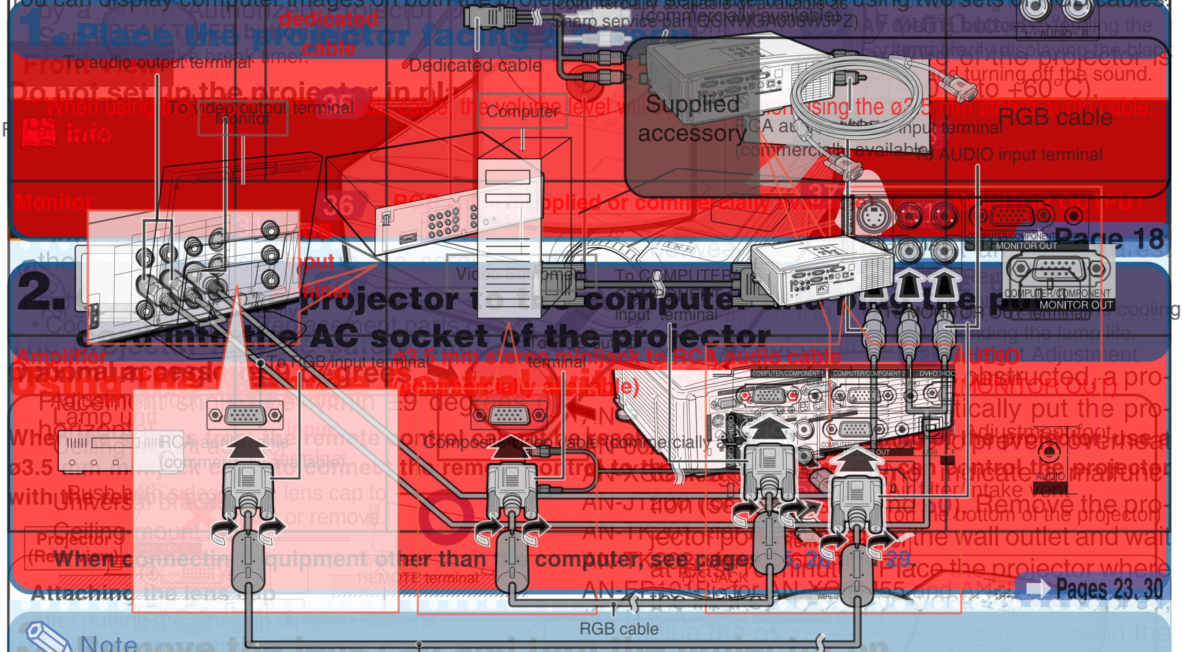
- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

About the Supplied PDF Operation Manuals

This section shows the basic operation (projector connecting with the computer). For details, see the page described for each step.

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.


Supplied accessory
RGB cable
RGB cable
RGB cable (commercially available)
COMPUTER/COMPONENT MONITOR OUT

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote function is possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

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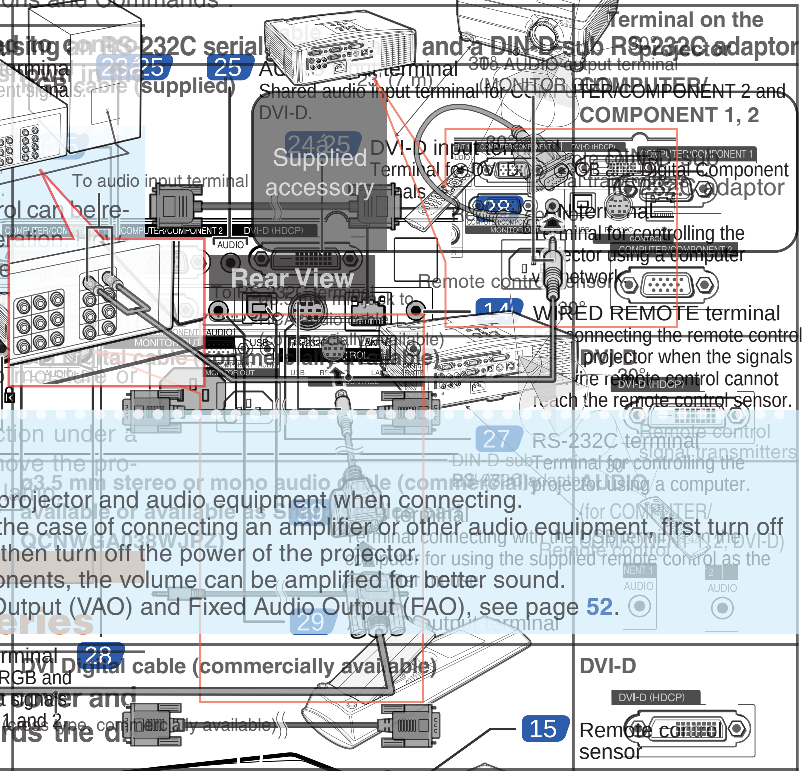
Page 30

Connecting to an Amplifier or Other Audio Equipment

When the RS-232C terminal on the projector is connected to a computer, the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for "RS-232C Specifications and Commands".

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



Front View
Remote control sensor
Rear View
AUDIO output terminal
To audio input terminal
Amplifier
Terminal on the projector
AUDIO
COMPUTER/COMPONENT 2
DVI-D (HDCP)
WIRED REMOTE terminal
RS-232C terminal
DIN-D-sub RS-232C adaptor (supplied)
RS-232C serial control cable
3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)
Exhaust vent

Note

- Turn off the power of both the projector and audio equipment when connecting.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 52.

Audio-visual equipment		Terminal on the projector
DVI digital output terminal	DVI Digital cable (commercially available)	DVI-D
Component video output terminal	3 RCA to 15-pin D-sub cable (optional: AN-C3CP2)	COMPUTER/ COMPONENT 1, 2
S-video output terminal	S-video cable (commercially available)	S-VIDEO
Video output terminal	Video cable (commercially available)	VIDEO

Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.

Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

Using the Carrying Handle

- When transporting the projector, carry it by the carrying handle on the side.
- Always put on the lens cap to prevent damage to the lens when transporting the projector.
- Do not lift or carry the projector by the lens or the lens cap as this may damage the lens.

- Danger of explosion if battery is incorrectly replaced.
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries. This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak. Battery fluid from leaked batteries is harmful to skin, therefore ensure you wipe them first and then remove them using a cloth.
- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

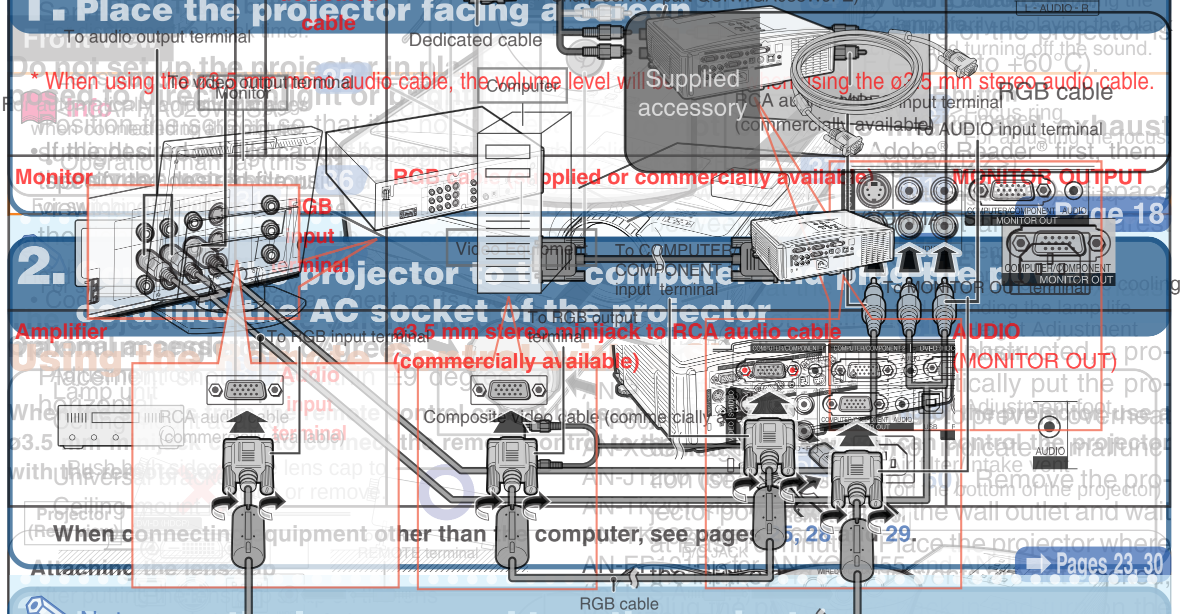
*** Using the Kensington Lock**

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

How to Access the PDF Operation Manuals

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.



Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote function is not possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

➡ Page 30

Replacing the Lamp Unit

Warning!

- Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

Info

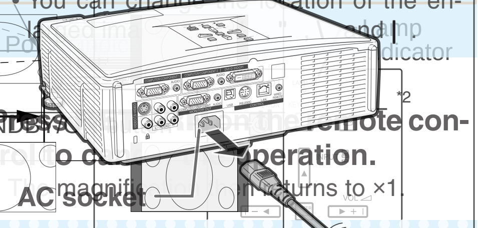
- Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, make sure you carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.

1 **Press STANDBY/ON on the projector or STANDBY on the remote control to put the projector into standby mode.**

- Wait until the cooling fan stops.

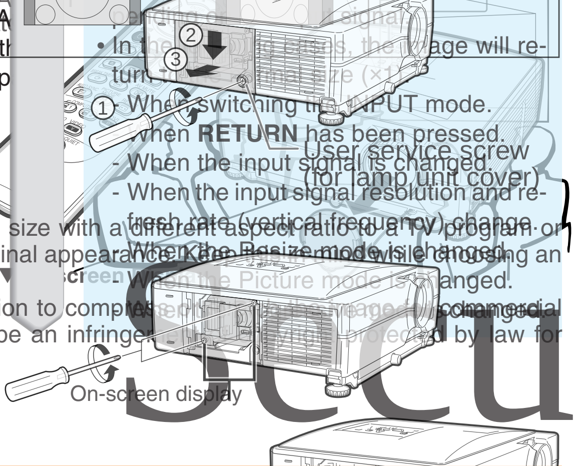
2 **Disconnect the power cord.**

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).



3 **Remove the lamp unit cover.**

- Loosen the user service screw that secures the lamp unit cover. Slide down and remove the lamp unit cover.



4 **Remove the lamp unit.**

- Hold the lamp unit and pull it out in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.

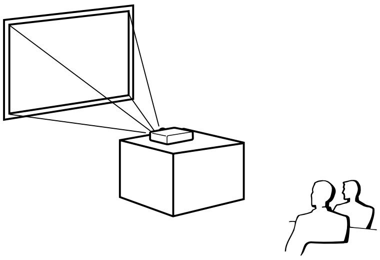
Info

- **Direct Power Off function**
You can unplug the power cord from the AC outlet even if the cooling fan is still running.

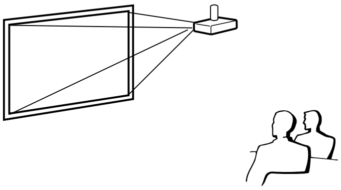
Projection (PRJ) Mode

The projector can use any of the 4 projection modes, shown in the diagram below. Select the mode most appropriate for the projection setting in use. (You can set the PRJ mode in "SCR-ADJ" menu. See page 50.)

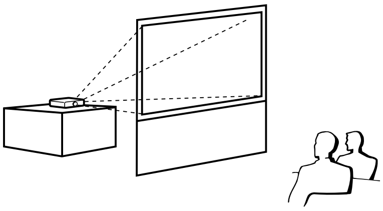
- Table mounted, front projection
  [Menu item → "Front"]



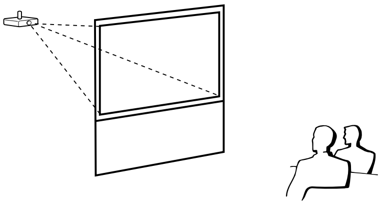
- Ceiling mounted, front projection
  [Menu item → "Ceiling + Front"]



- Table mounted, rear projection
  (with a translucent screen)
  [Menu item → "Rear"]

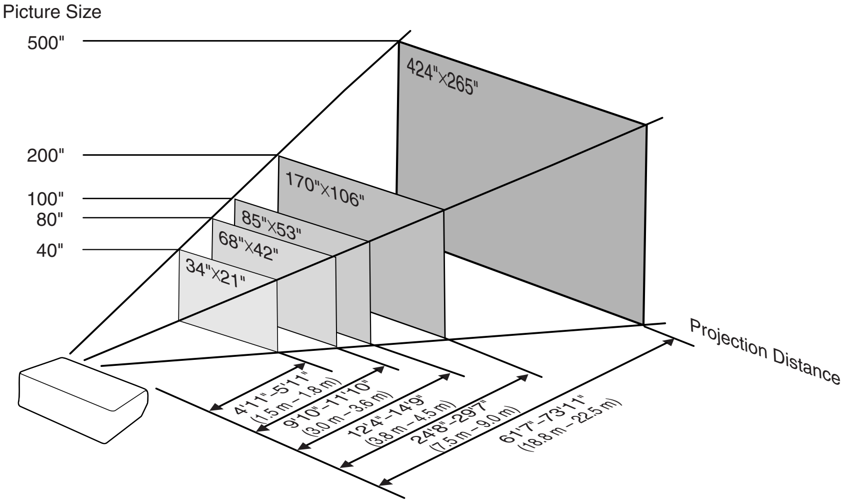


- Ceiling mounted, rear projection
  (with a translucent screen)
  [Menu item → "Ceiling + Rear"]



Indication of the Projection Image Size and Projection Distance

For details, refer to the "SETUP MANUAL" contained on the supplied CD-ROM.
Example: 16:10 Signal Input (Normal Mode) for standard lens


Picture Size
500"
200"
100"
80"
40"
424"X265"
170"X106"
85"X53"
68"X42"
34"X21"
4'11"–5'11" (1.5 m – 1.8 m)
9'10"–11'10" (3.0 m – 3.6 m)
12'4"–14'9" (3.8 m – 4.5 m)
24'8"–29'7" (7.5 m – 9.0 m)
61'7"–73'11" (18.8 m – 22.5 m)
Projection Distance

Maintenance indicator			Problem	Cause	Possible solution
	Normal	Abnormal			
Temperature warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	• Blocked air intake	• Relocate the projector to an area with proper ventilation (see page 8).
				• Cooling fan breakdown • Internal circuit failure	• Take the projector to your nearest Sharp Authorised Projector Dealer or Service Center (see page 68) for repair.
				• Clogged air intake	• Clean the air intake (See page 56.)
Lamp indicator	Green on	Green blinks	Time to change the lamp.	• Remaining lamp life becomes 5% or less.	• Carefully replace the lamp. (See page 62.)
		Red on	The lamp does not illuminate.	• Burned-out lamp • Lamp circuit failure	• Take the projector to your nearest Sharp Authorised Projector Dealer or Service Center (see page 68) for repair. • Please exercise care when replacing the lamp.
Power indicator	Red on	Red blinks	The power indicator blinks in red when the projector is on.	• The lamp unit cover or lens housing cover is not securely installed.	• Securely install the lamp unit cover. • If the power indicator blinks even when the covers are securely installed, or if the cooling fan does not run normally, then contact your nearest Sharp Authorised Projector Dealer or Service Center (see page 68) for advice.

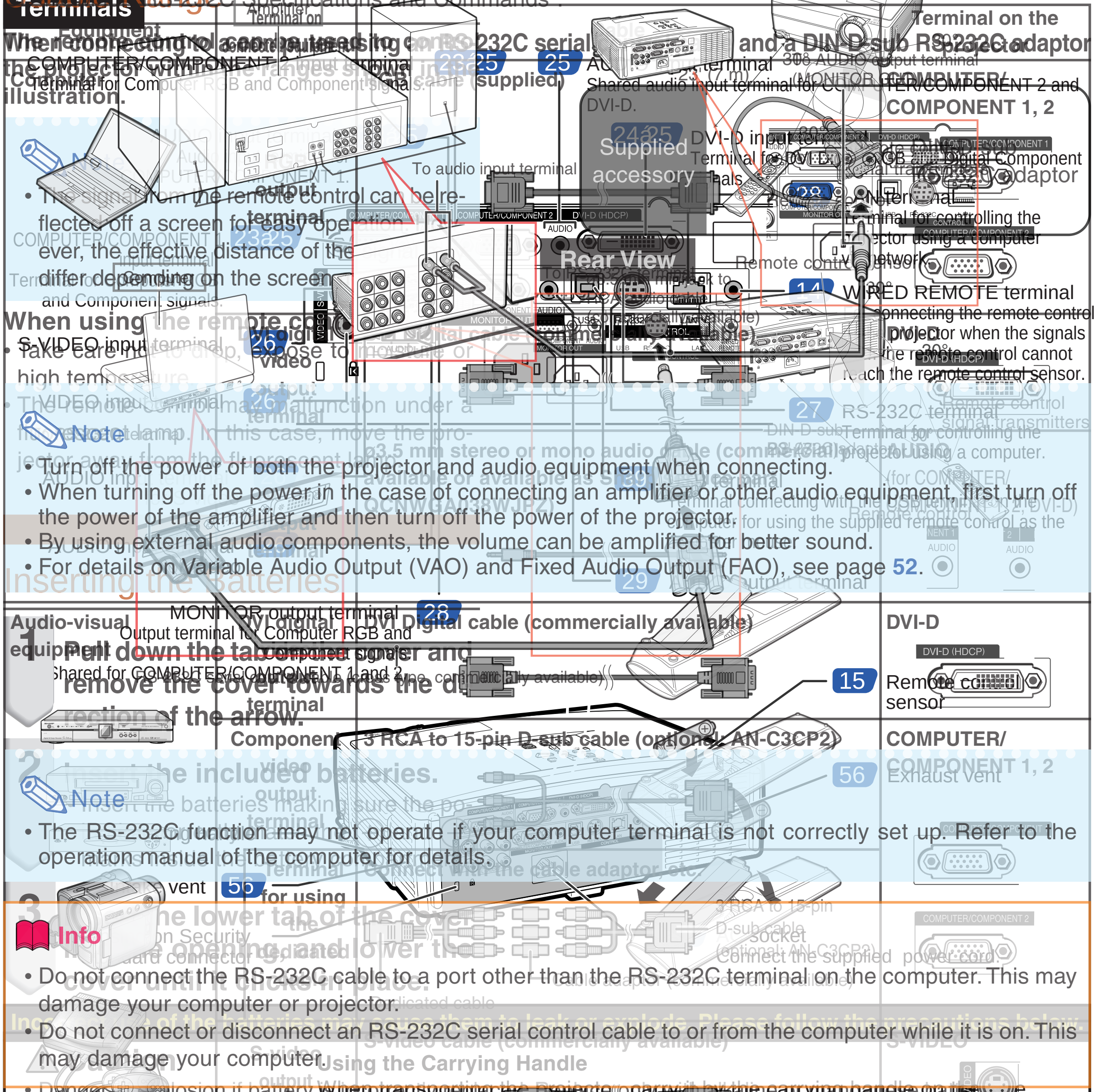
Info

- If the temperature warning indicator illuminates and the projector enters the standby mode, check if any of the ventilation holes are blocked (see page 8) and then try turning the power back on. Wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- The cooling fan keeps the internal temperature of the projector constant and this function is controlled automatically. The sound of the cooling fan may change during operation because the fan speed may change and this is not a malfunction.

Connecting to an Amplifier or Other Audio Equipment

When the RS-232C terminal on the projector is connected to a computer, the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for "RS-232C Specifications and Commands".

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor


Projector (Rear View)
Front View
Rear View
Terminals
Usable Range
Terminal on the projector
Audio-visual equipment
Amplifier
Computer
RS-232C serial control cable
DIN-D-sub RS-232C adaptor
Supplied accessory
AUDIO output terminal
To audio input terminal
Remote control sensor
Remote control signal transmitters
WIRED REMOTE terminal
RS-232C terminal
DVI-D
COMPUTER/COMPONENT 1, 2
S-VIDEO
VIDEO
Exhaust vent
3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)
DVI digital cable (commercially available)
3 RCA to 15-pin D-sub cable (optional, AN-C3CP2)
S-video cable (commercially available)
Video cable (commercially available)
Supplied power cord

The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ depending on the screen material.

When using the remote control

- Take care not to drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. In this case, move the projector away from the fluorescent lamp.

Note

- Turn off the power of both the projector and audio equipment when connecting.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 52.

Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.

Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

Using the Carrying Handle

When transporting the projector, carry it by the carrying handle on the side.

- Always put on the lens cap to prevent damage to the lens when transporting the projector.
- Do not lift or carry the projector by the lens or the lens cap as this may damage the lens.

Inserting the Batteries

Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.

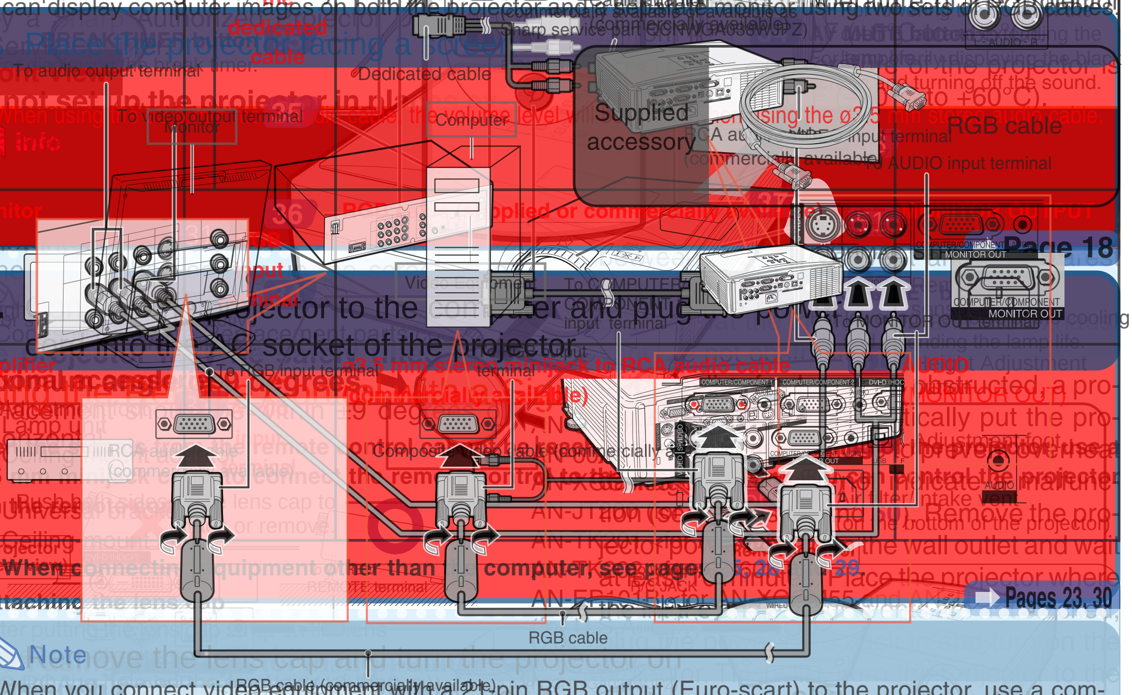
- Danger of explosion if battery is incorrectly replaced.
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries. This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak. Battery fluid from leaked batteries is harmful to skin, therefore ensure you wipe them first and then remove them using a cloth.
- The batteries included with this projector may run down in a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

*** Using the Kensington Lock**

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.


RGB cable
Supplied accessory
RGB cable (commercially available)
COMPUTER/COMPONENT
MONITOR OUT

Page 18

Pages 23, 30

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

- The wireless remote function is possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

Page 30

Specifications

Model		XG-C455W/PG-C355W
Display devices		[illegible] LCD panel × 3
Resolution		WXGA (1280 × 800)
Lens	F number	F1.7 – 1.9
	Zoom	Manual, ×1.2 (f=28.0–33.6 mm)
	Focus	Manual
Input terminals	DVI-D (Compatible with HDCP)	×1
	Computer/Component (mini D-sub 15 pin)	×2
	S-Video (mini DIN 4 pin)	×1
	Video (RCA)	×1
	Audio (ø3.5 mm stereo minijack)	×2
	Audio (RCA)	×2 (L/R)
Output terminals	Computer/Component (mini D-sub 15 pin)	×1
	Audio (ø3.5 mm stereo minijack)	×1 (variable audio output)
Control and communication terminals	LAN (RJ-45)	×1
	USB (Typ[illegible]	×1
	RS-232C	×1
	Wired Remote (ø3.5 mm stereo minijack)	×1
Speakers		2 W (Mono)
Projection lamp		275 W
Rated voltage		AC 100–240 V
Rated frequency		50/60 Hz
Input current		3.[illegible] A
Power consumption (Standby)		360 W (3.4 W) with AC 100 V 345 W (4.4 W) with AC 240 V
Operation temperature		41°F to 95°F (+5°C to +35°C)
Cabinet		Plastic
Dimensions (main body only)		12 [illegible] × 4 [illegible] × 11 [illegible]" (326 × 101.5 × 279.5 mm)
Weight (approx.)		10.8 lbs. (4.9 kg)

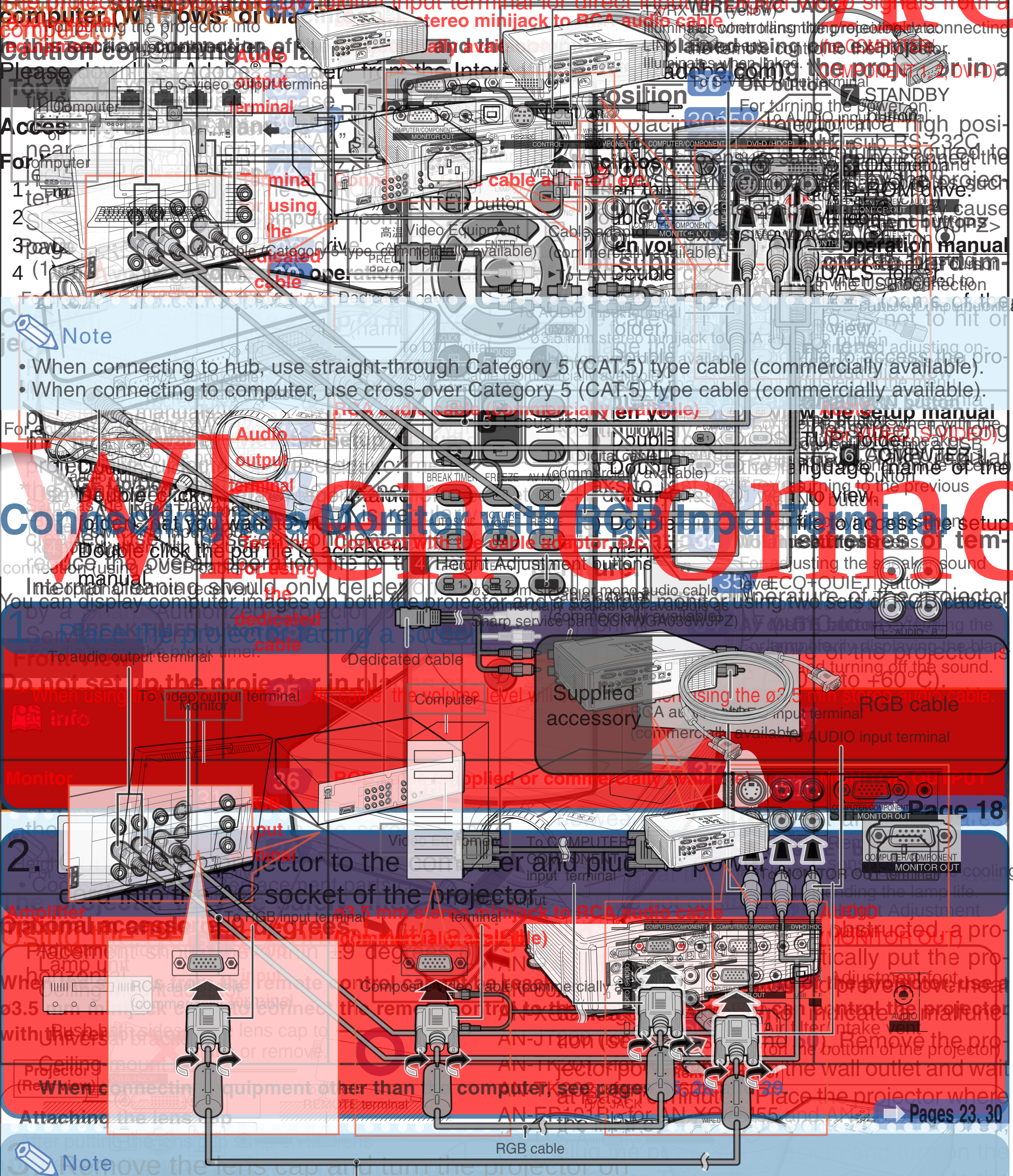
As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

This projector is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the projector and plug it in again after more than 5 minutes.

How to Access the PDF Operation Manuals

This section shows the basic operation (projector connecting with the computer). For details, see the page described below for each step.

PDF operation manuals in several languages are included in the CD-ROM. To utilize these manuals, you need to install Adobe® Reader® on your computer (Windows® or Macintosh®).



Computer
Audio output terminal
To audio output terminal
To video output terminal
Monitor
Dedicated cable
RGB cable
Supplied accessory
To COMPUTER/COMPONENT input terminal
To AUDIO input terminal
To RGB input terminal
ø3.5 mm stereo minijack to RCA audio cable
RGB cable (commercially available)
MONITOR OUT
COMPUTER/COMPONENT
STANDBY/ON
ON

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.

1. Place the projector facing a screen.

➡ Page 18

2. Connect the projector to the computer and plug the power cord into the AC socket of the projector.

➡ Pages 23, 30

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

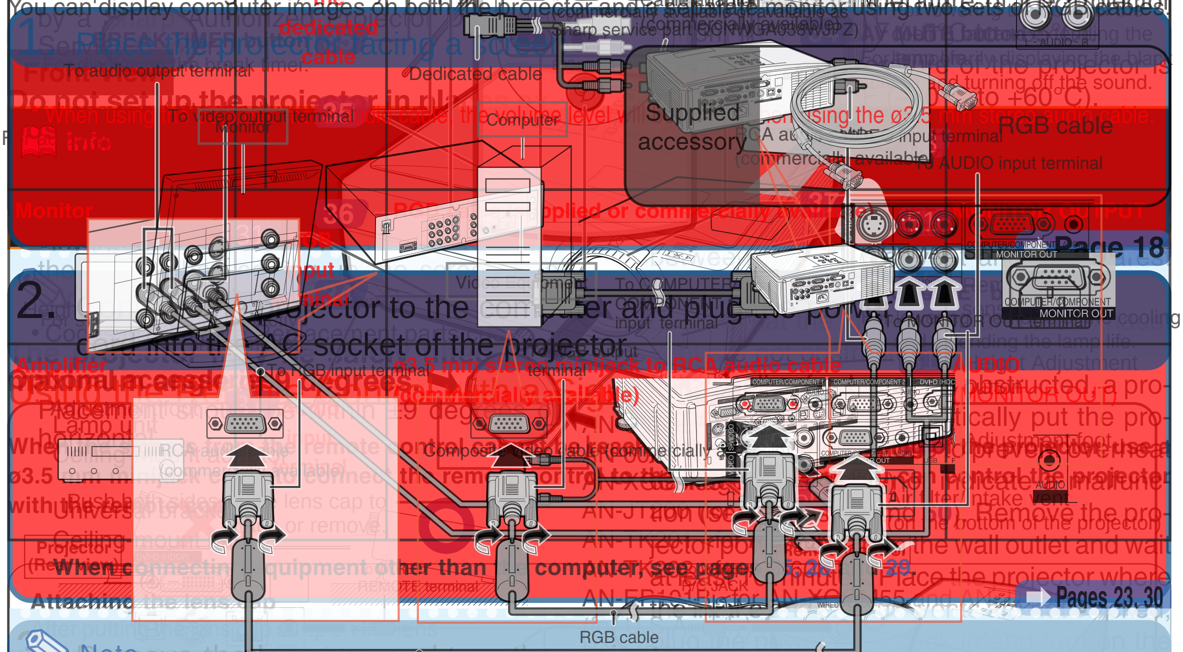
Note

- The wireless remote function is only possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

➡ Page 30

Connecting to a Monitor with RGB Input Terminal

You can display computer images on both the projector and a separate monitor using two sets of RGB cables.


To audio output terminal
Dedicated cable
Computer
Supplied accessory
RGB cable
Monitor
To RGB input terminal
To COMPUTER/COMPONENT input terminal
MONITOR OUT
RGB cable (commercially available)

Note

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

Note

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Note

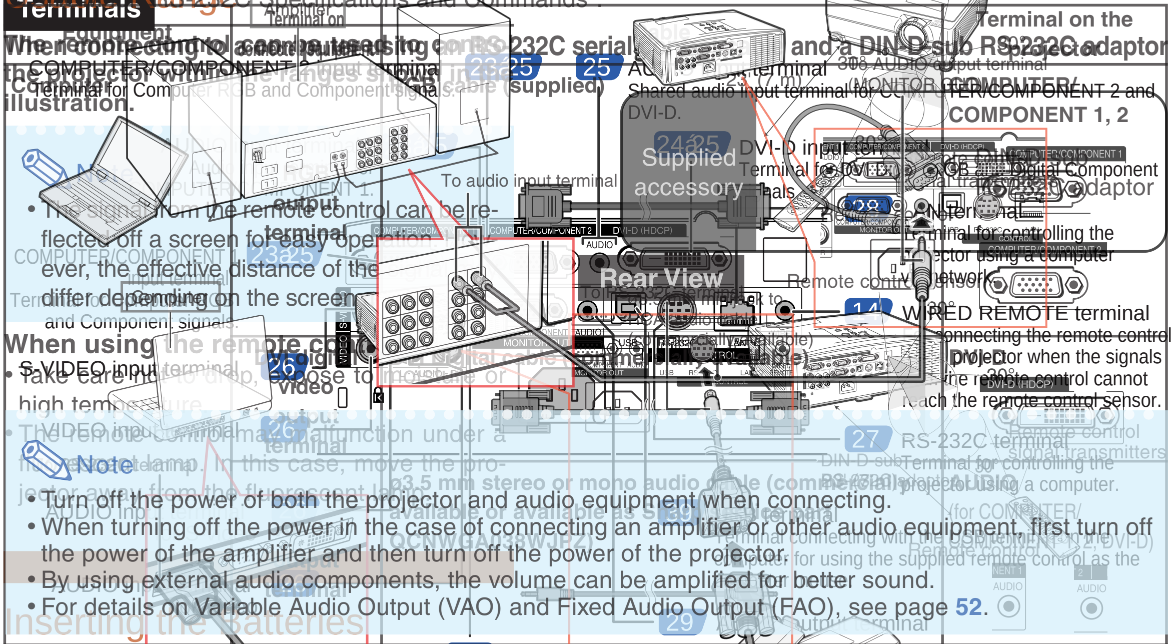
- The wireless remote function is not possible when the ø3.5 mm minijack cable is connected to the projector. Should the wireless remote operation be required, the ø3.5 mm minijack cable should be disconnected from the projector.

Page 30

Connecting to an Amplifier or Other Audio Equipment

When the RS-232C terminal on the projector is connected to a computer, the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied CD-ROM for "RS-232C Specifications and Commands".

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



Front View
Remote control sensor
Rear View
Terminals
Supplied accessory
3.5 mm stereo or mono audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)
To audio input terminal
AUDIO output terminal
DVI-D input terminal
RS-232C terminal
WIRED REMOTE terminal
COMPUTER/COMPONENT 2
DVI-D (HDCP)
AUDIO

Note

- Turn off the power of both the projector and audio equipment when connecting.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 52.

Audio-visual equipment	DVI Digital cable (commercially available)	DVI-D
	3 RCA to 15-pin D-sub cable (optional: AN-C3CP2)	COMPUTER/ COMPONENT 1, 2
	S-video cable (commercially available)	S-VIDEO
	Video cable (commercially available)	VIDEO

Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.

Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

Using the Carrying Handle

When transporting the projector, carry it by the carrying handle on the side.

- Always put on the lens cap to prevent damage to the lens when transporting the projector.
- Do not lift or carry the projector by the lens or the lens cap as this may damage the lens.

- Remove the batteries from the remote control once they have run out, as leaving them in can cause them to leak. Battery fluid from leaked batteries is harmful to skin, therefore ensure you wipe them first and then remove them using a cloth.
- Comply with the rules (ordinance) of each local government when disposing of worn-out batteries.

*** Using the Kensington Lock**

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Accessing the PDF Operation Manuals

- When connecting to hub, use straight-through Category 5 (CAT.5) type cable (commercially available).
- When connecting to computer, use cross-over Category 5 (CAT.5) type cable (commercially available).

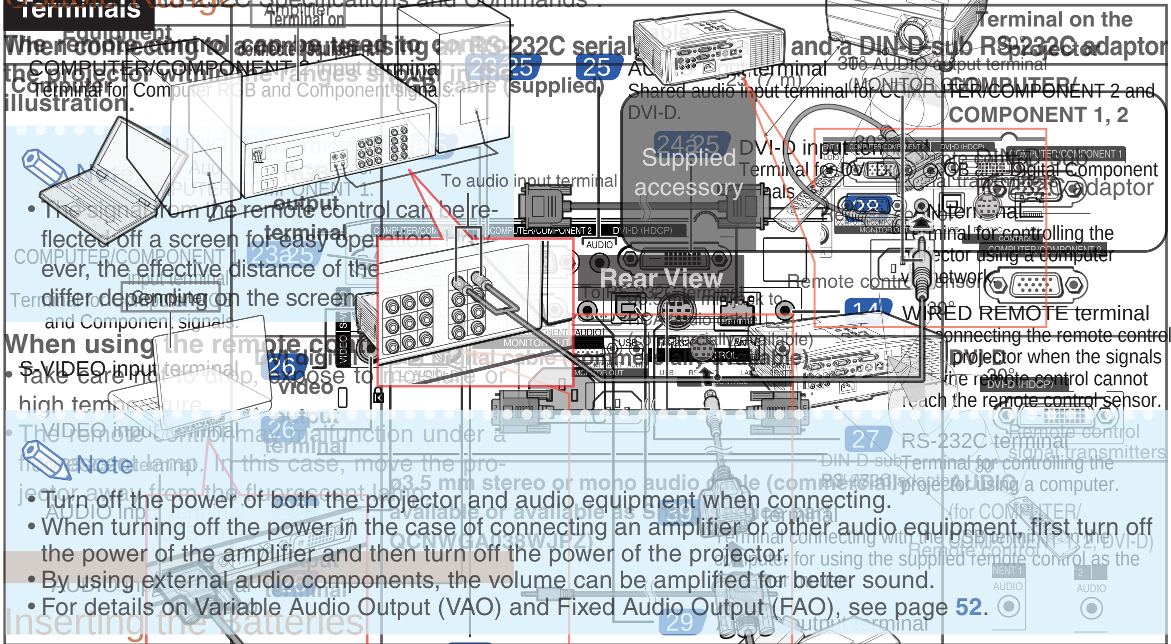
Connecting to a Monitor with RGB Input Terminal

- When you connect video equipment with a 21-pin RGB output (Euro-scart) to the projector, use a commercially available cable that fits in the projector terminal you want to connect.

Connecting to an Amplifier or Other Audio Equipment

When the RS-232C terminal on the projector is connected to a computer with an RS-232C serial control cable, the computer can be used to control the projector and check the status of the projector. Refer to the "SETUP MANUAL" contained on the supplied … RS-232C Specifications and Commands".

When connecting to a computer using an RS-232C serial control cable and a DIN-D-sub RS-232C adaptor



Terminals
Front View
Rear View
Remote control sensor
RS-232C terminal
DIN-D-sub RS-232C adaptor
To audio input terminal
AUDIO output terminal
WIRED REMOTE terminal
DVI-D (HDCP)
COMPUTER/COMPONENT 1
COMPUTER/COMPONENT 2

Note

- Turn off the power of both the projector and audio equipment when connecting.
- When turning off the power in the case of connecting an amplifier or other audio equipment, first turn off the power of the amplifier and then turn off the power of the projector.
- By using external audio components, the volume can be amplified for better sound.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page 52.

Note

- The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.

Info

- Do not connect the RS-232C cable to a port other than the RS-232C terminal on the computer. This may damage your computer or projector.
- Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.

*** Using the Kensington Lock**

- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Replacing the Lamp Unit

Warning!

- Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

Info

- Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, make sure you carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.

1 **Press STANDBY/ON on the projector or STANDBY on the remote control to put the projector into standby mode.**

- Wait until the cooling fan stops.

2 **Disconnect the power cord.**

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).

3 **Remove the lamp unit cover.**

- Loosen the user service screw that secures the lamp unit cover. Slide down and remove the lamp unit cover.

4 Hold the lamp unit and pull it in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.

Pressing AV MUTE again will turn the projected image back on.

When using the RESIZE function to select an image size with a different aspect ratio to a TV program or video image, the image will look different from its original appearance.

1 **Press MAGNIFY on the remote control.**

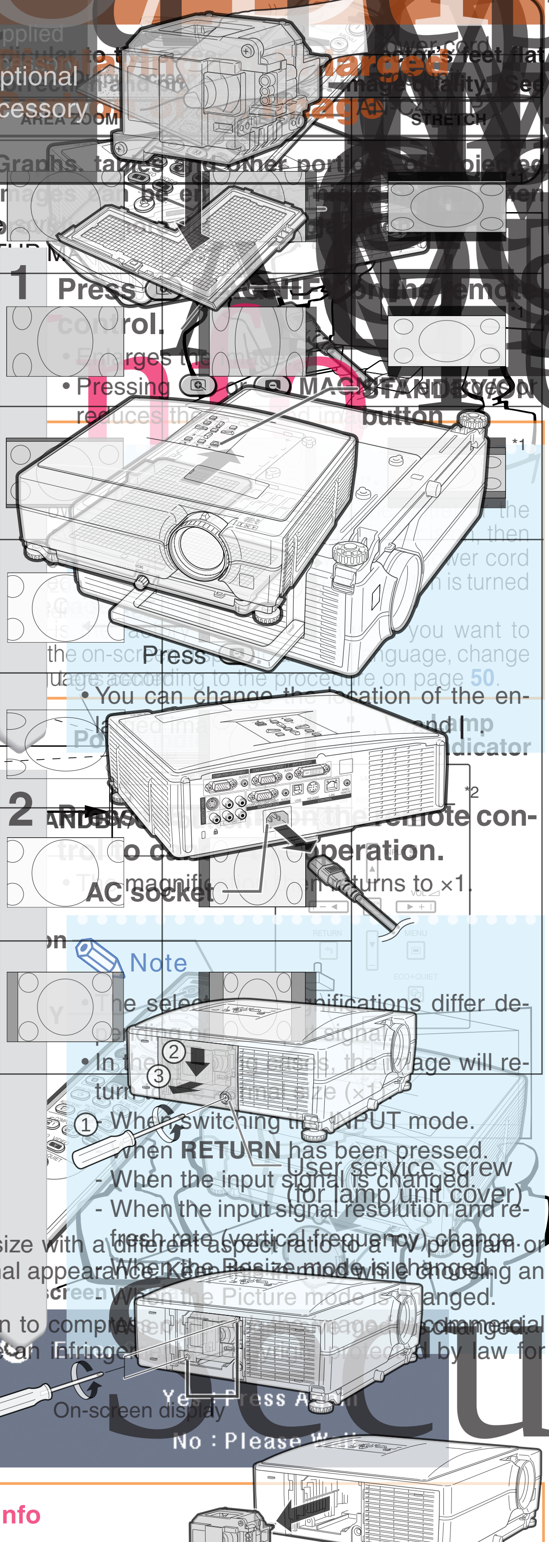
- Enlarges the image.

2 **Press RETURN on the remote control to cancel the operation.**

- The magnification returns to ×1.

Note

- The selectable magnifications differ depending on the input signal.
- In the following cases, the image will return to normal size (×1).
  - When switching the INPUT mode.
  - When RETURN has been pressed.
  - When the input signal is changed.
  - When the input signal resolution and refresh rate (vertical frequency) change.
  - When the Resize mode is changed.
  - When the Picture mode is changed.

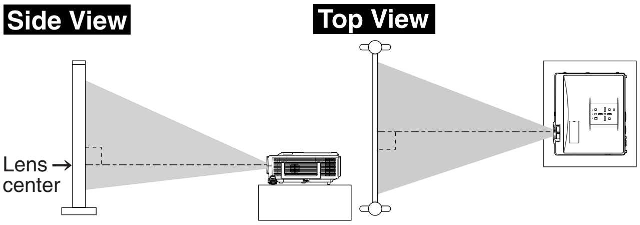


Info

- **Direct Power Off function**
  You can unplug the power cord from the AC outlet even if the cooling fan is still running.

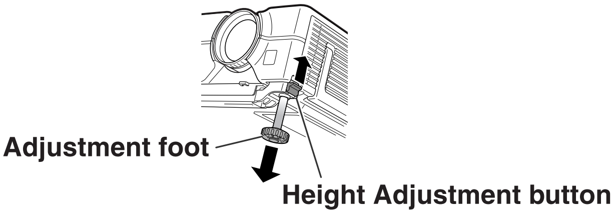
Using the Adjustment Feet

The height of the projector can be adjusted using the adjustment feet when the screen is located higher than the projector, the screen is inclined or when the installation site is slightly inclined.
Install the projector so that it is as perpendicular to the screen as possible.



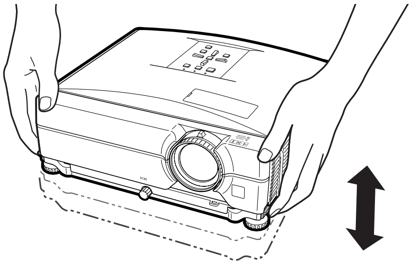
1 **Press the Height Adjustment buttons.**

- The adjustment feet come out.



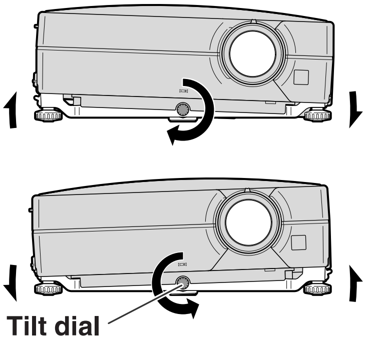
2 **Lift the projector to adjust its height and remove your hands from the Height Adjustment buttons.**

- The projector is adjustable up to approximately 9 degrees.



3 **Rotate the Tilt dial to finely adjust the horizontal tilt of the projector.**

- The inclination is adjustable within approximately 2 degrees.
- When adjusting the height of the projector, trapezoidal distortion occurs. When "Auto V-Keystone" of the "SCR-ADJ" menu is set to "On" (see page 49), keystone correction functions automatically to correct trapezoidal distortion. When you want to adjust the automatically corrected image, use the manual keystone correction. (See page 32.)



Info

- Do not press the Height Adjustment button when the adjustment feet come out without firmly holding the projector.
- Do not hold the lens when lifting or lowering the projector.
- When lowering the projector, be careful not to get your fingers caught in the area between the adjustment foot and the projector.

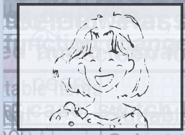
Menu operation ➡ Page 43

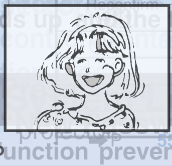
Setting a Password

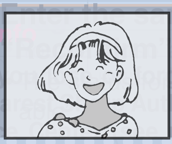
If you do not want others to change the setting for the “Network” menu, set a password.

PRJ
Network
Password
SEL./ADJ.
RETURN
ENTER
END

- Refer to the SETUP MANUAL contained on the supplied CD-ROM for RS-232C Specifications and Command Settings.
- Refer to the computers operation manual for instructions for setting the computers baud rate.







1 Select “Password”, then press ENTER or ▶.
- The screen for entering the password appears.

2 Enter the password in “Old Password” using ▲, ▼, ◀ and ▶, then press ENTER.

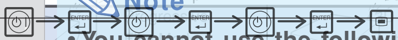
3 Enter the password in “New Password” using ▲, ▼, ◀ and ▶, then press ENTER.

4 Enter the same password again in “Reconfirm” using ▲, ▼, ◀ and ▶, then press ENTER.

Note

- If you do not need the password protection for the “Network” menu settings anymore, press **ENTER** without entering new password in steps 3 and 4.
- To cancel the password settings, press **RETURN**.

If you forget the password, perform the following procedure to delete it, then set a new password.



Note

- If ENTER is held down for more than 5 seconds, the operation buttons on the projector will be locked. (See page 53.)
- You cannot use the buttons on the remote control to delete the password.

Note

- Once after the password is set, you must enter the password to change the “Network” menu settings.

- Select this when using the projector at altitudes of approximately 1 500 meters (4 900 feet) or more.
- When Fan Mode is set to High, the fan rotation speeds up and the fan noise becomes louder.

- You cannot use the following buttons for keycode STANDBY/ON, ON, STANDBY, ENTER, L-CLICK, R-CLICK/RETURN, MENU, ECO+QUIET and BREAK TIMER.
- System lock function recognizes each button on the remote control or on the projector as an individual button, even if they share the same button name. If you used the buttons on the projector in setting your keycode, the keycode cannot be canceled with the remote control.

his function only works with the Microsoft Windows OS and Mac OS . However, this function does not rk with the following operation systems that do not support USB.

- Versions earlier than Windows 95
- Versions earlier than Windows NT4.0
- Versions earlier than Mac OS 8.5
- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Turning the Power off (Put the Projector into Standby Mode)

1 **Press STANDBY/ON on the projector or STANDBY on the remote control to put the projector into standby mode.**

- Wait until the cooling fan stops.

2 **Disconnect the power cord.**

- Unplug the power cord from the AC socket.

📖 Info

- **Direct Power Off function**
  You can unplug the power cord from the AC outlet even if the cooling fan is still running.

Info

- **Direct Power Off function**
  You can unplug the power cord from the AC outlet even if the cooling fan is still running.

Replacing the Lamp

The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277).

U.S.A. ONLY

Hg LAMP CONTAINS MERCURY For State Lamp Disposal Information www.lamprecycle.org or 1-800-BE-SHARP

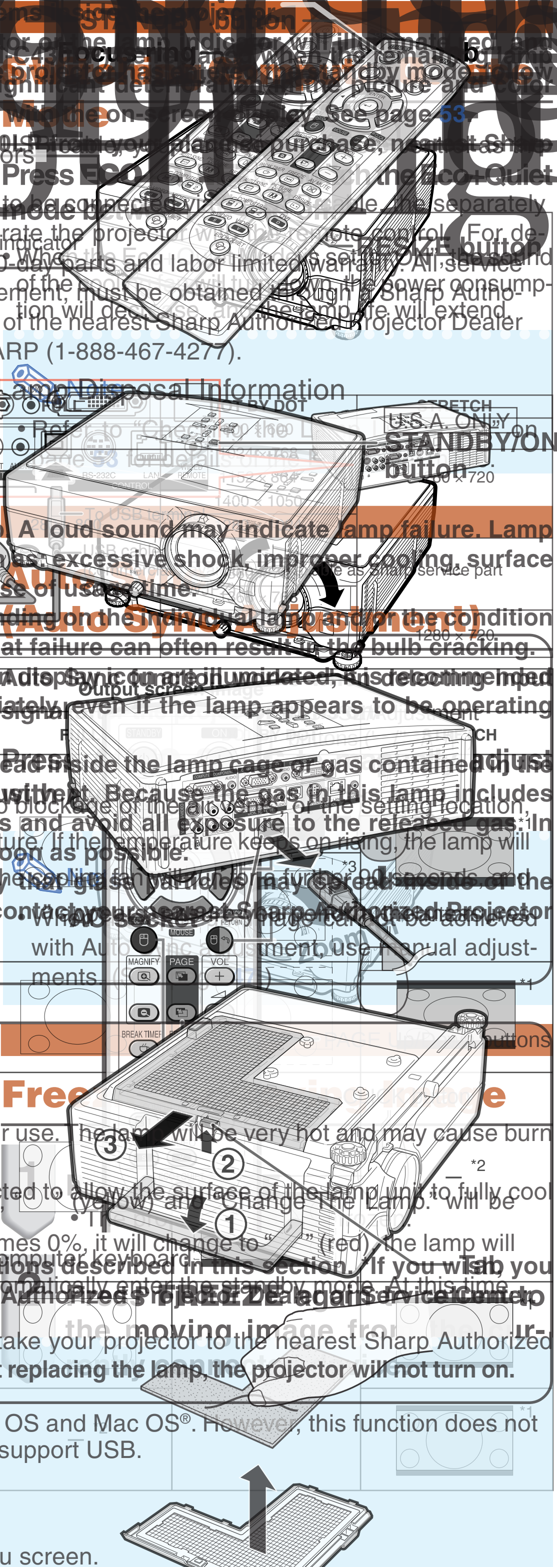
Caution Concerning the Lamp

This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.

When the lamp replacement indicator and on-screen display icon are illuminated, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.

Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult a doctor as soon as possible.

If the lamp breaks, there is also a possibility that glass particles may spread inside of the projector. In this case, it is recommended you contact your nearest Sharp Authorized Projector Dealer or Service Center to assure safe operation.



Replacing the Lamp

Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burns or injury.
- Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.

When the remaining lamp life becomes 5% or less, (yellow) and "Change The Lamp." will be displayed on the screen. When the percentage becomes 0%, it will change to (red), the lamp will automatically turn off and then the projector will automatically enter the standby mode. At this time, the lamp indicator will illuminate in red.

If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

Carefully change the lamp by following the instructions described in this section. If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.

* If the new lamp does not illuminate after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center.

Note

- This function only works with the Microsoft® Windows® OS and Mac OS®. However, this function does not work with the following operation systems that do not support USB.
  - Versions earlier than Windows® 95
  - Versions earlier than Windows® NT4.0
  - Versions earlier than Mac OS® 8.5
- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Warning!

- Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

Info

- Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, make sure you carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.

1 **Press STANDBY/ON on the projector or STANDBY on the remote control to put the projector into standby mode.**

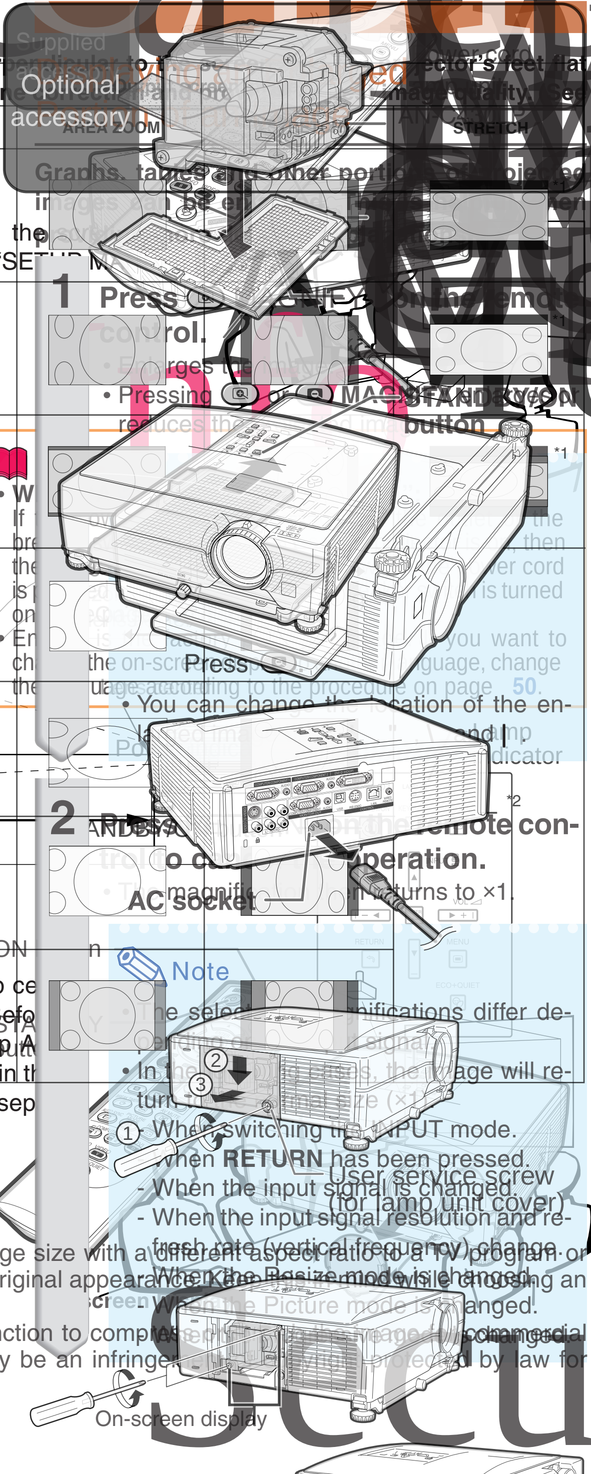
- Wait until the cooling fan stops.

2 **Disconnect the power cord.**

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).

3 **Remove the lamp unit cover.**

4 **Remove the lamp unit.**



Note

- The selectable magnifications differ depending on the input signal.
- In the following cases, the image will return to normal size (×1).
- When switching the INPUT mode.
- When RETURN has been pressed.
- When the input signal is changed.
- When the input signal resolution and refresh rate (vertical frequency) change.
- When the Resize mode is changed.
- When the Picture mode is changed.

Info

- **Direct Power Off function**
You can unplug the power cord from the AC outlet even if the cooling fan is still running.

This function only works with the Microsoft® Windows® OS and Mac OS®. However, this function does not work with the following operation systems that do not support USB.

- Versions earlier than Windows® 95
- Versions earlier than Windows® NT4.0
- Versions earlier than Mac OS® 8.5

- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Troubleshooting

product utilizes tin-lead solder, and lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities, the Electronics

Problem	Check	Page
	al connected devices is off.	—
	mode is wrong.	34
	remote control batteries have run down.	15
	• External output has not been set when connecting notebook computer.	23
	• If the connected DVI digital equipment is turned on before the projector, "Standard" DVI digital input mode is selected	24
	Cables incorrectly connected to the rear panel of the projector.	23-29
	• Bright is set to minimum position.	
	• Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the operation manual for how to switch	
	Picture adjustments are incorrectly set.	45
	• Video input system is incorrectly set.	48
	• Input signal type (RGB/Component) is incorrectly set.	47
	• Adjust the focus.	33
	• The projection distance exceeds the focus range.	19
	• There is fog on the lens. If the projector is carried from a cold room into a warm room, or if	—
	(Computer input only) • Perform "SIG-ADJ" Adjustments (Clock Adjustment). • Perform "SIG-ADJ" Adjustments (Phase Adjustment).	47
	• Volume is set to minimum. • When the projector is connected volume is set to minimum, turn up the volume of the external device.	
Picture appears but no sound is heard.	• Speaker is set to Off.	51
	• Make the necessary adjustments	
	• Depending on the computer you are using the output resolution signal may be different from the one you have set. For details refer to the operation manual of the computer.	—

Specifications

Model		XG-C455W/PG-C355W
Display devices		0.7" LCD panel × 3
Resolution		WXGA (1280 × 800)
Lens	F number	F1.7–1.9
	Zoom	Manual, ×1.2 (f=28.0–33.6 mm)
	Focus	Manual
Input terminals	DVI-D (Compatible with HDCP)	×1
	Computer/Component (mini D-sub 15 pin)	×2
	S-Video (mini DIN 4 pin)	×1
	Video (RCA)	×1
	Audio (3.5 mm stereo minijack)	×2
	Audio (RCA)	×2 (L/R)
Output terminals	Computer/Component (mini D-sub 15 pin)	×1
	Audio (3.5 mm stereo minijack)	×1 (variable audio output)
Control and communication terminals	LAN (RJ-45)	×1
	USB (Type B)	×1 (for lamp unit cover)
	RS-232C (mini DIN 9 pin)	×1
	Wired Remote (3.5 mm stereo minijack)	×1
Speakers		2 W (Mono)
Projection lamp		275 W
Rated voltage		AC 100–240 V
Rated frequency		50/60 Hz
Input current		3.6 A
Power consumption (Standby)		360 W (3.4 W) with AC 100 V 345 W (4.4 W) with AC 240 V
Operation temperature		41°F to 95°F (+5°C to +35°C)
Cabinet		Plastic
Dimensions (main body only) [W × H × D]		12 27/32" × 4" × 11 1/64" (326 × 101.5 × 279.5 mm)
Weight (approx)		10.8 lbs. (4.9 kg)

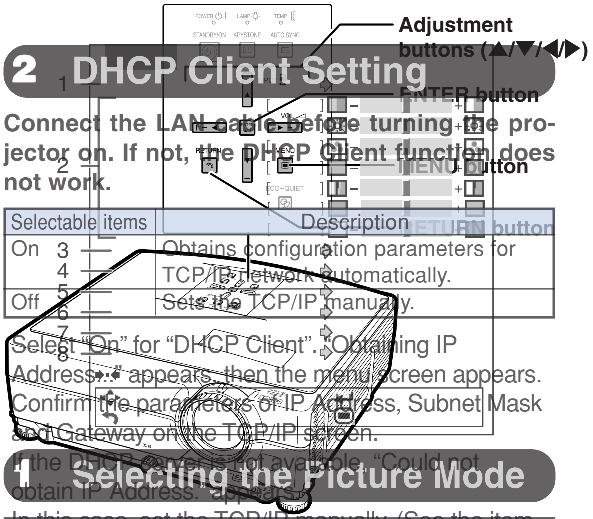
As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

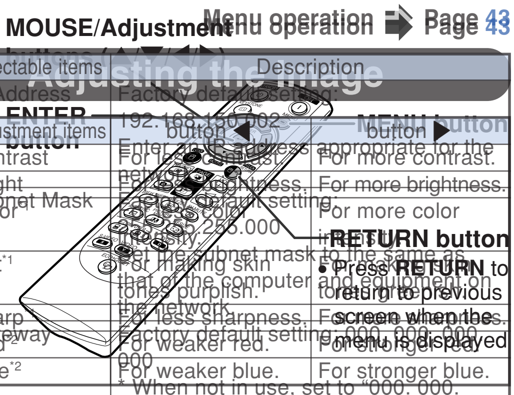
This projector is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the projector and plug it in again after more than 5 minutes.

Troubleshooting

Problem	Check	Page
	• Power to all connected devices is off.	
	• The selected input mode is wrong.	34
	• The remote control batteries have run out.	15
	• External output has not been set when connecting notebook computer.	23
	• If the connected DVI digital equipment is turned on before the projector, the image may not be projected properly or may not be displayed at all. Ensure that the appropriate input mode has been selected on the projector before you turn on the connected equipment.	24
	• Cables incorrectly connected to the rear panel of the projector.	23-29
	• Bright is set to minimum.	45
	• Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the computer's operation manual for how to switch.	
	• Picture adjustments are incorrectly set.	45
	• Video input system is incorrectly set.	48
	• Input signal type (RGB/Component) is incorrectly set.	47
When the image is blurry	• Adjust the focus.	33
	• The projection distance exceeds the focus range.	15
	• If the projector is carried from a cold room into a warm room, condensation may form on the lens. If this happens, the image will become blurred. Please allow the projector about one hour before it is to be used. If condensation should form, unplug the power cord from the wall outlet and wait for it to dry.	
	• (Computer input only) Perform SIG-ADJ Adjustments. (Clock Adjustment)	47
	• Perform SIG-ADJ Adjustments. (Phase Adjustment)	47
	• Noise may appear depending on the computer.	
Picture appears but no sound is heard.	• Cables incorrectly connected.	23-28
	• Volume is set to minimum.	34
	• Speaker is set to Off.	51
Data image is not centered.	• Make the necessary adjustments of each item of SIG-ADJ.	47
	• Depending on the computer you are using, the output resolution signal may be different from the one you have set. For details, refer to the operation manual of the computer.	

Using the Menu Screen





• Press RETURN to return to previous screen when the menu is displayed.

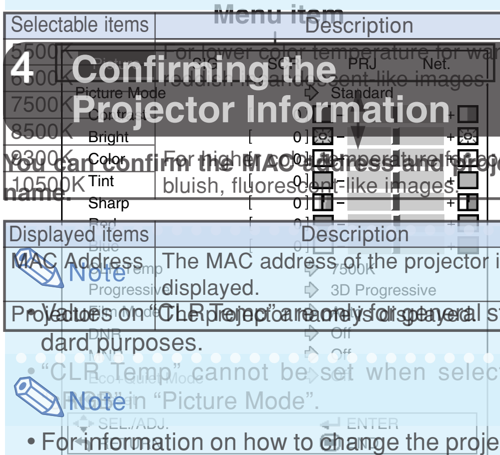
Example: Adjusting "Bright".

• This operation can also be performed by using the buttons on the projector.

1 **Press MENU.**

• The "Picture" menu screen for the selected input mode is displayed.

2 **Press ▶ or ◀ and select "Picture" to adjust.**



Picture Adjustment ("Picture" menu)

1 Selecting the Picture Mode

Selectable items	Description	The default settings of CLR Temp
Standard	For standard image	7500K
Presentation	Brightens portions of image for more enhanced presentations.	7500K
[illegible]	Gives natural tint to the projected image.	[illegible]
[illegible]	[illegible] sharpness to the [illegible] image	7500K
sRGB	For high fidelity reproduction of images from a computer.	–

* "sRGB" is displayed only when RGB signal is input.

• [illegible] set each item in the "Picture" menu to your preference. Any changes you make are retained in memory.

Note

• You can also press PICTURE MODE on the remote control to select the picture mode. (See page 36.)

• sRGB is an international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the images are displayed in a natural tint based on an original image, when "sRGB" is selected.
For additional information about the sRGB function, visit "http://www.srgb.com/".

• You cannot set the items "Red", "Blue" and "CLR Temp", when "sRGB" is selected.

Info

When sRGB is selected the projected image may become dark but this does not indicate a malfunction.

2 Adjusting the Image

Adjustment items	◀ button	▶ button
Contrast	For less contrast.	For more contrast.
Bright	For less brightness.	For more brightness.
Color	For less color intensity.	For more color intensity.
Tint[1]	For making skin tones purplish.	For making skin tones greenish.
Sharp	For less sharpness.	For more sharpness.
Red[2]	For weaker red.	For stronger red.
Blue[2]	For weaker blue.	For stronger blue.

[1] Not adjustable/selectable in the RGB input mode.

[2] Not adjustable/selectable when selecting "sRGB" in "Picture Mode".

Note

• "Red" and "Blue" cannot be set when selecting "sRGB" in "Picture Mode".

• To reset all adjustment items, select "Reset" and press ENTER.

3 Adjusting the Color Temperature

Selectable items	Description
5500K	For lower color temperature for warmer, reddish incandescent-like images.
6500K	
7500K	
8500K	
9300K	For higher color temperature for cooler, bluish, fluorescent-like images.
10500K	

Note

• Values on "CLR Temp" are only for general standard purposes.

• "CLR Temp" cannot be set when selecting "sRGB" in "Picture Mode".

---

2 DHCP Client Setting

Connect the LAN cable before turning the projector on. If not, the DHCP Client function does not work.

Selectable items	Description
On	Obtains configuration parameters for TCP/IP network automatically.
Off	Sets the TCP/IP manually.

Select "On" for "DHCP Client". "Obtaining IP Address..." appears, then the menu screen appears. Confirm the parameters of IP Address, Subnet Mask and Gateway on the TCP/IP screen.

If the DHCP server is not available, "Could not obtain IP Address." appears. In this case, set the TCP/IP manually. (See the item 3.)

3 TCP/IP Setting

Set the TCP/IP [illegible]

1 **Select "Off" for "DHCP Client", then press ENTER.**

2 **Select "TCP/IP", then press ENTER.**

3 **Enter "IP Address" using ▲, ▼, ▶ and ◀, then press ENTER.**

4 **Enter "Subnet Mask" using ▲, ▼, ▶ and ◀, then press ENTER.**

5 **Enter "Gateway" using ▲, ▼, ▶ and ◀ then press ENTER.**

Selectable items	Description
IP Address	Factory default setting: 192.168.150.002 Enter an IP address appropriate for the network.
Subnet Mask	Factory default setting: 255.255.255.000 Set the subnet mask to the same as that of the computer and equipment on the network.
Gateway	Factory default setting: 000.000.000.000 * When not in use, set to "000.000.000.000".

Note

• Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.002" is not used in a network with an IP address of "192.168.150.XXX", you dont have to change the projector IP address.

• For details about each setting, consult your network administrator.

4 Confirming the Projector Information

You can confirm the MAC address and projector name.

Displayed items	Description
MAC Address	The MAC address of the projector is displayed.
Projector name	The projector name is displayed.

Note

• For information on how to change the projector name, see "SETUP MANUAL" contained in the supplied CD-ROM.

Adjusting the Projector Network Environment (“Network” menu)

Menu operation ➡ Page 43

Setting a Password

Note

- Once after the password is set, you must enter the password to change the “Network” menu settings.

Changing the Password

1 Select “Password” and then press ENTER. The screen for entering the password appears.

2 Enter the “Old Password” using ▲, ▼, ◀ and ▶, and then press ENTER.

3 Enter the new password in “New Code” using ▲, ▼, ◀ and ▶.

4 Enter the same password again in “Reconfirm” using ▲, ▼, ◀ and ▶, and then press ENTER.

Old Code
New Code
Reconfirm

Note

- If you do not need the password protection for the “Network” menu settings anymore, press ENTER without entering new password in steps 3 and 4.
- To cancel the password settings, press RETURN.

If you forget the password

If you forget the password, perform the following procedure to delete it, then set a new password.

On the projector, press ⏻ → ENTER → ⏻ → ENTER → ⏻ → ENTER → ▣

Note

- If ENTER is held down for more than 5 seconds, the operation buttons on the projector will be locked. (See page 53.)
- You cannot use the buttons on the remote control to delete the password.

Picture Adjustment ("Picture" menu)

Menu operation ➡ Page 43

① Selecting the Picture Mode

Selectable items	Description	The default settings of CLR Temp
Standard	For standard image	7500K
Presentation	Brightens portions of image for more enhanced presentations.	7500K
Movie	Gives natural tint to the projected image.	
Game	Gives sharpness to the projected image	7500K
sRGB	For high fidelity reproduction of images from a computer	–

- "sRGB" is displayed only when RGB signal is input.
- The set ... each item in the "Picture" menu ... your preference ... changes you make ... retained in memory.

Note

- You can also press PICTURE MODE on the remote control to select the picture mode. (See page 36.)
- sRGB is an international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the images are displayed in a natural tint based on an original image, when "sRGB" is selected.
- For additional information about the sRGB function, visit "http://www.srgb.com/".
- You cannot set the items, "Red", "Blue" and "CLR Temp", when "sRGB" is selected.

Info

- When "sRGB" is selected, the projected image may become dark, but this does not indicate a malfunction.

② Adjusting the Image

Adjustment items	◀ button	▶ button
Contrast	For less contrast.	For more contrast.
Bright	For less brightness.	For more brightness.
Color	For less color intensity.	For more color intensity.
Tint*1	For making skin tones purplish.	For making skin tones greenish.
Sharp	For less sharpness.	For more sharpness.
Red*2	For weaker red.	For stronger red.
Blue*2	For weaker blue.	For stronger blue.

[1] Not adjustable/selectable in the RGB input mode.

[2] Not adjustable/selectable when selecting "sRGB" in "Picture Mode".

Note

- "Red" and "Blue" cannot be set when selecting "sRGB" in "Picture Mode".
- To reset all adjustment items, select "Reset" and press ENTER.

③ Adjusting the Color Temperature

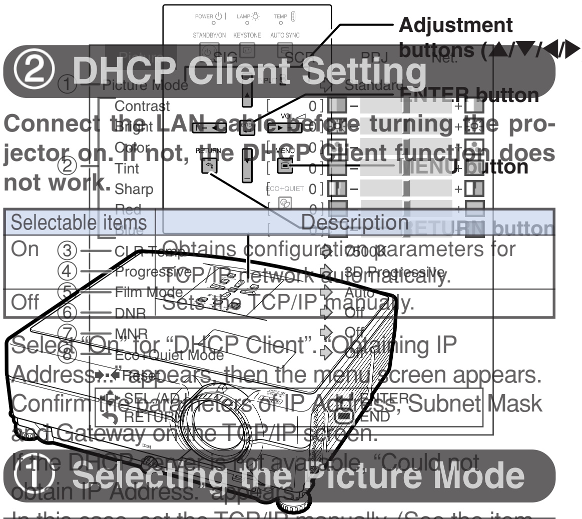
Selectable items	Description
5500K	For lower color temperature for warmer, reddish incandescent-like images.
6500K	
7500K	
8500K	
9300K	
10500K	For higher color temperature for cooler, bluish, fluorescent-like images.

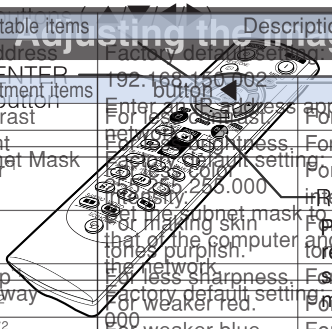
Note

- Values on "CLR Temp" are only for general standard purposes.
- "CLR Temp" cannot be set when selecting "sRGB" in "Picture Mode".

Setting the Menu Screen

Menu operation ➡ Page 43





Press RETURN to return to previous screen when the menu is displayed.

Menu item

Example: Adjusting "Bright".

- This operation can also be performed by using the buttons on the projector.

1 Press MENU.
- The "Picture" menu screen for the selected input mode is displayed.

2 Press ▶ or ◀ and select "Picture" to adjust.

---

② DHCP Client Setting

Connect the LAN cable before turning the projector on. If not, the DHCP Client function does not work.

Selectable items	Description
On	Obtains configuration parameters for TCP/IP network automatically.
Off	Sets the TCP/IP manually.

Select "On" for "DHCP Client". "Obtaining IP Address..." appears, then the menu screen appears. Confirm the parameters of IP Address, Subnet Mask and Gateway on the TCP/IP screen.

If the DHCP server is not available, "Could not obtain IP Address." appears. In this case, set the TCP/IP manually. (See the item ③.)

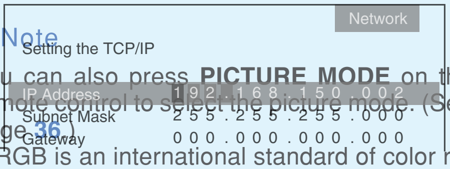
③ TCP/IP Setting

Set the TCP/IP manually.

1 Select "Off" for "DHCP Client", then press ENTER.

2 Select "TCP/IP", then press ENTER.

3 Enter "IP Address" using ▲, ▼, ▶ and ◀, then press ENTER.



Network

Setting the TCP/IP

IP Address 192.168.150.002

Subnet Mask 255.255.255.000

Gateway 000.000.000.000

4 Enter "Subnet Mask" using ▲, ▼, ▶ and ◀, then press ENTER.

5 Enter "Gateway" using ▲, ▼, ▶ and ◀, then press ENTER.

Selectable items	Description
IP Address	Factory default setting: 192.168.150.002 Enter an IP address appropriate for the network.
Subnet Mask	Factory default setting: 255.255.255.000 Set the subnet mask to the same as that of the computer and equipment on the network.
Gateway	Factory default setting: 000.000.000.000 * When not in use, set to "000.000.000.000".

Note

- Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.002" is not used in a network with an IP address of "192.168.150.XXX", you dont have to change the projector IP address.
- For details about each setting, consult your network administrator.

④ Confirming the Projector Information

You can confirm the MAC address and projector name.

Displayed items	Description
MAC Address	The MAC address of the projector is displayed.
Projector	The projector name is displayed.

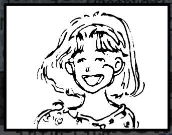
Note

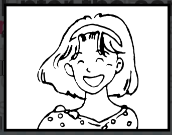
- For information on how to change the projector name, see "SETUP MANUAL" contained in the supplied CD-ROM.

Adjusting the Projector Network Environment (“Network” menu)

Setting a Password

If you want to prevent others to change the setting of the “Network” menu, set a password.





Note

- Once after the password is set, you must enter the password to change the “Network” menu settings.

Changing the Password

Note

- If you do not need the password protection for the “Network” menu settings anymore, press ENTER without entering new password in steps 3 and 4.
- To cancel the password settings, press RETURN.

If you forget the password

If you forget the password, perform the following procedure to delete it, then set a new password.

On the projector, press

Note

- If ENTER is held down for more than 5 seconds, the operation buttons on the projector will be locked. (See page 53.)
- You cannot use the buttons on the remote control to delete the password.

Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.	–
Maintenance indicator illuminates or blinks in red.	See "Maintenance Indicators".	59
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	• The keylock is set. If the keylock is set to ON, all the buttons are locked.	53
Picture is green with component input signals (COMPUTER/COMPONENT 1, 2, DVI-D).	• Change the input signal type setting.	47
Picture is pink (no green) with RGB input signals (COMPUTER/COMPONENT 1, 2, DVI-D).		
Picture is too bright and whitish.	• Image adjustments are incorrect.	45
The black levels of the image show banding or appear faded when DVI-D is selected.	• Select the Dynamic Range that results in the best picture.	48
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling fan speed becomes faster.	
The lamp does not light up even after the projector turns on.	• The lamp indicator is illuminating in red. Replace the lamp.	59
The lamp suddenly turns off during projection.		
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly. • If this happens frequently, replace the lamp.	23-29 62
The lamp takes a long time to turn on. Picture is dark.	• The lamp will eventually need to be changed.	62

Adjusting the Projector Network Environment (“Network” menu)

① Setting a Password

If you do not want others to change the setting for the ÒNetworkÓ menu, set a password.

Setting a Password

4 Enter the same password in “Reconfirm”, then press ENTER.

Note

- Once after the password is set, you must enter the password to change the ÒNetworkÓ menu settings.

Changing the Password

2 Enter the password in “Old Password” using and then press ENTER.

4 Enter the same password again in “Reconfirm” using and then press ENTER.

Note

- If you do not need the password protection for the ÒNetworkÓ menu settings anymore, press ENTER without entering new password in steps 3 and 4.

¥ To cancel the password settings, press RETURN.

If you forget the password

If you forget the password, perform the following procedure to delete it, then set a new password.

On the projector, press

Note

- You cannot use the buttons on the remote control to delete the password.

Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.	—
The maintenance indicator illuminates or blinks in red.	See "Maintenance Indicators".	59
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	• The keylock is set. If the keylock is set to ON, all the buttons are locked.	53
Picture is green with component input signals (COMPUTER/COMPONENT 1, 2, DVI-D). Picture is pink (no green) with RGB input signals (COMPUTER/COMPONENT 1, 2, DVI-D).	• Change the input signal type setting.	47
Picture is too bright and whitish.	• Image adjustments are incorrectly set.	45
The black levels of the image show banding or appear faded when DVI-D is selected.	• Select the Dynamic Range setting (Standard or Enhanced) that results in the best picture quality.	48
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling fan turns faster.	—
The lamp does not light up even after the projector turns on. The lamp suddenly turns off during projection.	• The lamp indicator is illuminating in red. Replace the lamp.	59
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly. • If this happens frequently, replace the lamp.	23-29 62
The lamp takes a long time to turn on. Picture is dark.	• The lamp will eventually need to be changed. The lamp has reached the end of its life. Replace the lamp.	62

Maintenance indicator	Normal	Abnormal	Problem	Cause	Possible solution
Temperature warning indicator	Off	Red on (Standby)	The internal temperature is abnormally high.	• Blocked air intake	• Relocate the projector to an area with proper ventilation (see page 8).
				• Cooling fan breakdown • Internal circuit failure	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 68) for repair.
				• Clogged air intake	• Clean the exhaust and intake vents. (See page 56.)
Lamp indicator	Green on Green blinks when the lamp is warming up.	Red on	Time to change the lamp.	• Remaining lamp life becomes 5% or less.	• Carefully replace the lamp. (See page 62.)
		Red on (Standby)	The lamp does not illuminate.	• The lamp is shut down abnormally.	• Disconnect the power cord from the AC outlet, and then connect it again.
				• Burnt-out lamp • Lamp circuit failure	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center (see page 68) for repair. Please exercise care when replacing the lamp.
Power indicator	Green on/Red on Green blinks (Cooling)	Red blinks	The power indicator blinks in red when the projector is on.	• The filter cover, lamp unit cover or lens housing cover is open.	• Securely install the lamp unit cover. • If the power indicator blinks even when the covers are securely installed, or if the cooling fan does not run normally, then contact your nearest Sharp Authorized Projector Dealer or Service Center (see page 68) for advice.

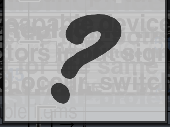
Info

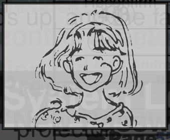
- If the temperature warning indicator illuminates and the projector enters the standby mode, check whether any of the ventilation holes are blocked (see page 8) and then try turning the power back on. Wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- The cooling fan keeps the internal temperature of the projector constant and this function is controlled automatically. The sound of the cooling fan may change during operation because the fan speed may change and this is not a malfunction.

Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	normal, the sound is due to cabinet shrinkage	
Maintenance indicator illuminates or blinks in red.	See "Maintenance Indicators".	59
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	• The keylock is set. If the keylock is set to ON, all the buttons are locked.	53
Picture is green with component input signals (COMPUTER/ COMPONENT 1, 2, DVI-D).	• Change the input signal type setting.	47
Picture is pink (no green) with RGB input signals (COMPUTER/ COMPONENT 1, 2, DVI-D).		
Picture is too bright and whitish.	• Image adjustments are in	45
The black levels of the image show banding or appear faded when DVI-D is selected.	• Select the Dynamic Range that results in the best pi	48
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling	
The lamp does not light up even after the projector turns on.	Replace the lamp.	59
The lamp suddenly turns off during projection.		
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly. • If this happens frequently, replace the lamp.	23-29 62
The lamp takes a long time to turn on. Picture is dark.	• The lamp will eventually need to be changed. The lamp has reached the end of its life. Replace the lamp.	62
The remote control cannot be used.		15

Troubleshooting

Problem	Check	Page
[illegible]	• [illegible] ernal connected devices is off.	
	• [illegible] input mode is wrong.	34
	• [illegible] AV MUTE function is working.	34
	• Cables incorrectly connected to the rear panel of the projector.	[illegible]
	• Remote control batteries have run out.	15
	• External output has not been set when connecting notebook computer.	20
	• [illegible] installed correctly.	[illegible]
	• If the connected DVI digital equipment is turned on before the DVI-D input mode is selected on the projector, the image may not be projected properly or may not be displayed at all. Ensure that the appropriate input mode has been selected on the projector before you turn on the connected equipment.	24
Sound is heard but no picture appears.	• Cables incorrectly connected to the rear panel of the projector.	[illegible]
	• Bright is set to minimum position.	45
	• Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the computer's operation manual for how to switch its signal output settings.	
Color faded or poor.	• Image adjustments are incorrectly set.	45
	• Video input system is incorrectly set.	47
	• Input signal type (RGB/Component) is incorrectly set. (COMPUTER/COMPONENT 1, 2, DVI-D only)	47
Picture is blurred	• Adjust the focus.	33
	• The projection distance exceeds the focus range.	[illegible]
	• There is fog on the lens. If the projector is carried from a cold room into a warm room, or if it is suddenly heated, condensation may form on the surface of the lens and the image will become blurred. Please set up the projector at least one hour before it is to be used. If condensation should form, remove the power cord from the wall outlet and wait for it to [illegible]	
[illegible]	(Computer input only)	
	• Perform SIG-ADJ Adjustments (CLOCK [illegible])	47
	• Perform SIG-ADJ Adjustments ([illegible] CLOCK)	47
	• Noise may appear depending on the computer.	
Picture appears but no sound is heard.	• Cables incorrectly connected to the rear panel of the projector.	[illegible]
	• Volume is set to minimum.	34
	• When the projector is connected to the external device, volume is set to minimum, turn up the volume of the external device.	
	• Speaker is set to Off.	51
Data image is not centered.	• Make the necessary adjustments of [illegible] in the SIG-ADJ menu.	47
	• Depending on the computer you are using, the output resolution signal may be different from the one you have set. For details, refer to the operation manual of the computer.	





Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	• If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.	–
Maintenance indicator illuminates or blinks in red.	• See "Maintenance Indicators".	53
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	• The keylock is set. If the keylock is set to ON, all the buttons are locked.	45
Picture is green with component input signals (COMPUTER/COMPONENT 1, 2, DVI-D).	• Change the input signal type setting.	47
Picture is pink (no green) with RGB input signals (COMPUTER/COMPONENT 1, 2, DVI-D).		
Picture is too bright and whitish.	• Image adjustments are incorrectly set.	37
The black levels of the image show banding or appear faded when DVI-D is selected.	• Select the Dynamic Range setting ("Standard" or "Enhanced") that results in the best picture quality.	48
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling fan turns faster.	–
The lamp does not light up even after the projector turns on.	• The lamp indicator is illuminating in red. Replace the lamp.	59
The lamp suddenly turns off during projection.		
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly.	23-29
	• If this happens frequently, replace the lamp.	62
The lamp takes a long time to turn on. Picture is dark.	• The lamp will eventually need to be changed. The lamp has reached the end of its life. Replace the lamp.	62
The remote control cannot be used.	• The remote control may be too far away from the projector. • If direct sunlight or a strong fluorescent light is shining on the projector's remote control sensor, place the projector where it will not be affected by strong light. • The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.	15

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

This projector is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the projector and plug it in again after more than 5 minutes.

The following shows the items that can be set in the projector. **Menu operation** ➡ **Page 43**

Setting a Password

If you do not want others to change the setting for the “Network” menu, set a password.

1

2

3

4 Enter the same password in “Reconfirm”, then press ENTER.

“Password” changes to “En-

Note

- Once after the password is set, you must enter the password to change the “Network” menu settings.

Changing the Password

1 Select “Password” then press

2 Enter the password in “Old Password” using ▲, ▼, ▶ and ◀, then press ENTER.

3 Press the 4 buttons on the remote control or on the projector to enter the preset keycode in “New Password” using ▲, ▼, ▶ and ◀, then press ENTER.

4 Enter the same password again in “Reconfirm” using ▲, ▼, ▶ and ◀, then press ENTER.

Note

- If you do not need the password protection for the “Network” menu settings anymore, press ENTER without entering new password in steps 3 and 4.
- To cancel the password settings, press RETURN.

If you forget the password

If you forget the password, perform the following procedure to delete it, then set a new password.

On the projector, press

Note

- If ENTER is held down for more than 5 seconds, the operation buttons on the projector will be locked. (See page 53.)
- You cannot use the buttons on the remote control to delete the password.

② DHCP Client Setting

Connect the LAN cable before turning the projector on. If not, the DHCP Client function does not work.

Selectable items	Description
On	Obtains configuration parameters for TCP/IP network automatically.
Off	Sets the TCP/IP manually.

Select "On" for "DHCP Client". "Obtaining IP Address..." appears, then the menu screen appears. Confirm the parameters of IP Address, Subnet Mask and Gateway on the TCP/IP screen.

If the DHCP server is not available, "Could not obtain IP Address." appears. In this case, set the TCP/IP manually. (See the item ③.)

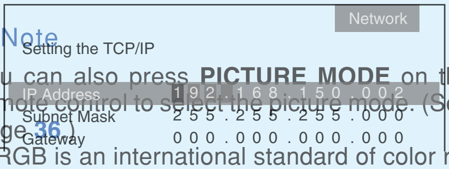
③ TCP/IP Setting

Set the TCP/IP manually.

1 **Select "Off" for "DHCP Client", then press ENTER.**

2 **Select "TCP/IP", then press ENTER.**

3 **Enter "IP Address" using ▲, ▼, ▶ and ◀, then press ENTER.**



Network

Setting the TCP/IP

IP Address 192.168.150.002

Subnet Mask 255.255.255.000

Gateway 000.000.000.000

4 **Enter "Subnet Mask" using ▲, ▼, ▶ and ◀, then press ENTER.**

5 **Enter "Gateway" using ▲, ▼, ▶ and ◀, then press ENTER.**

Selectable items	Description
IP Address	Factory default setting: 192.168.150.002 Enter an IP address appropriate for the network.
Subnet Mask	Factory default setting: 255.255.255.000 Set the subnet mask to the same as that of the computer and equipment on the network.
Gateway	Factory default setting: 000.000.000.000 * When not in use, set to "000. 000. 000. 000".

Note

- Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.002" is not used in a network with an IP address of "192.168.150.XXX", you don't have to change the projector IP address.
- For details about each setting, consult your network administrator.

④ Confirming the Projector Information

You can confirm the MAC address and projector name.

Displayed items	Description
MAC Address	The MAC address of the projector is displayed.
Projector	The projector name is displayed.

Note

- For information on how to change the projector name, see "SETUP MANUAL" contained in the supplied CD-ROM.

Picture Adjustment ("Picture" menu)

Menu operation ➡ Page 43

① Selecting the Picture Mode

Selectable items	Description	The default settings of CLR Temp
Standard	For standard image	7500K
Presentation	Brightens portions of image for more enhanced presentations.	7500K
Movie	Gives natural tint to the projected image.	6500K
Game	Gives sharpness to the projected image.	7500K
sRGB	For high fidelity reproduction of images from a computer.	–

- "sRGB" is displayed only when RGB signal is input.
- You can set or adjust each item in the "Picture" menu to your preference. Any changes you make are retained in memory.

Note

- You can also press **PICTURE MODE** on the remote control to select the picture mode. (See page 36.)
- sRGB is an international standard of color reproduction regulated by the IEC (International Electrotechnical Commission). As the fixed color area has been decided by the IEC, the images are displayed in a natural tint based on an original image, when "sRGB" is selected.
- For additional information about the sRGB function, visit "http://www.srgb.com/".
- You cannot set the items, "Red", "Blue" and "CLR Temp", when "sRGB" is selected.

Info

When sRGB is selected, the projected image may become dark, but this does not indicate a malfunction.

② Adjusting the image

Adjustment items	◀ button	▶ button
Contrast	For less contrast.	For more contrast.
Bright	For less brightness.	For more brightness.
Color*1	For less color intensity.	For more color intensity.
Tint*1	For making skin tones purplish.	For making skin tones greenish.
Sharp*1	For less sharpness.	For more sharpness.
Red*2	For weaker red.	For stronger red.
Blue*2	For weaker blue.	For stronger blue.

[*1] Not adjustable/selectable in the RGB input mode.

[*2] Not adjustable/selectable when selecting "sRGB" in "Picture Mode".

Note

- "Red" and "Blue" cannot be set when selecting "sRGB" in "Picture Mode".
- To reset all adjustment items, select "Reset" and press **ENTER**.

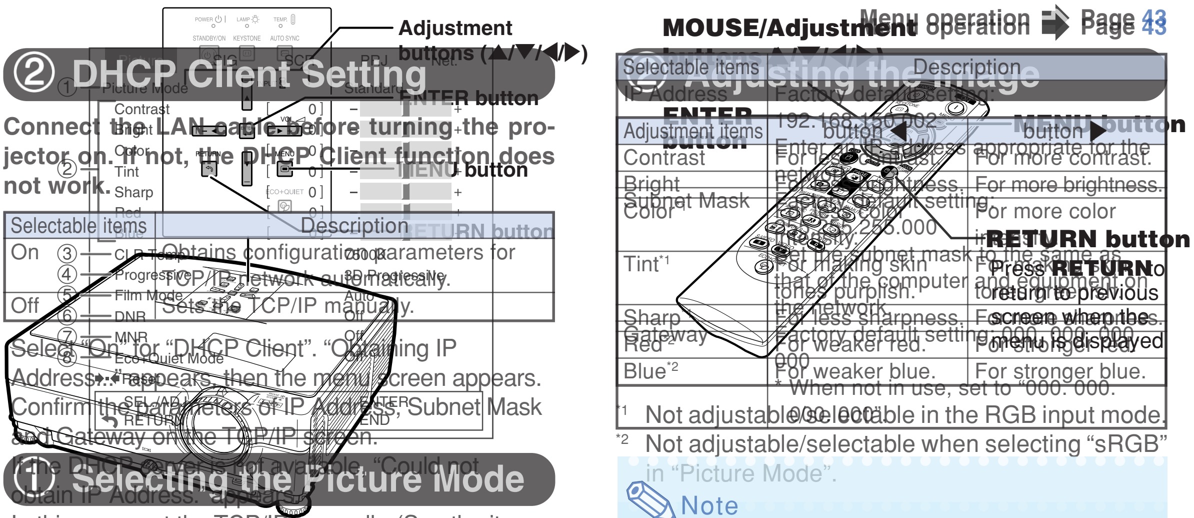
③ Adjusting the Color Temperature

Selectable items	Description
5500K	For lower color temperature for warmer, reddish incandescent-like images.
6500K	
7500K	
8500K	
9300K	For higher color temperature for cooler, bluish, fluorescent-like images.
10500K	

Note

- Values on "CLR Temp" are only for general standard purposes.
- "CLR Temp" cannot be set when selecting "sRGB" in "Picture Mode".

Using the Menu Screen



Example: Adjusting "Bright".

- This operation can also be performed by using the buttons on the projector.

1 **Press MENU.**

- The "Picture" menu screen for the selected input mode is displayed.

2 **Press ▶ or ◀ and select "Picture" to adjust.**

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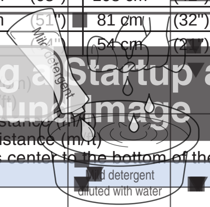
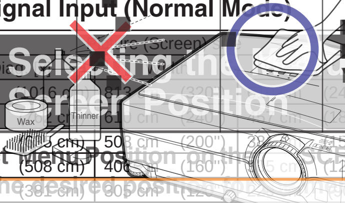
Cleaning the projector

- Ensure the power cord is unplugged before cleaning the projector.
- The cabinet as well as the operation panel is made of plastic. Avoid using benzene or thinner, as these can damage the finish on the cabinet.
- Do not use volatile agents such as insecticides on the projector.
- Do not attach rubber or plastic items to the projector for long periods. The effects of some of the agents in the plastic may cause damage to the quality or finish of the projector.

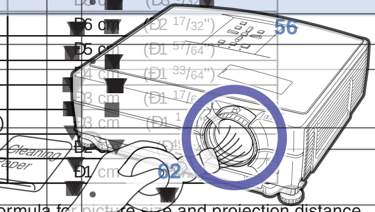

Mild detergent
Mild detergent diluted with water



- Wipe off dirt gently with a soft flannel cloth.
- When the dirt is hard to remove, soak a cloth in mild detergent diluted with water, wring the cloth well and then wipe the projector. Strong cleaning detergents may discolor, warp or damage the coating on the projector. Make sure to test on a small, inconspicuous area on the projector before use.

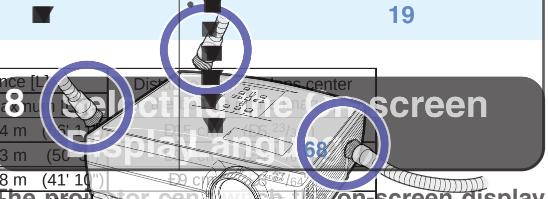
Cleaning the lens

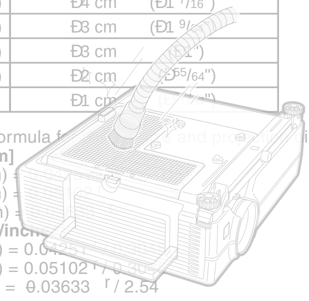
- Use a commercially available blower or lens cleaning paper (for glasses and camera lenses) for cleaning the lens. Do not use any liquid type cleaning agents, as they may wear off the coating film on the surface of the lens.
- As the surface of the lens can easily get damaged, be careful not to scrape or hit the lens.



Cleaning the exhaust and intake vents

- Use a vacuum cleaner to clean dust from the exhaust vent and the intake vent.





Info

- If you want to clean the air vents during projector operation, ensure you press **STANDBY/ON** on the projector or **STANDBY** on the remote control and put the projector into standby mode. After the cooling fan has stopped, unplug the power cord from the AC socket and clean the vents.
- The air filters should be cleaned every 100 hours of use. Clean the filters more often when the projector is used in a dusty or smoky location.

16:10 Signal Input (Normal Mode)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
500" (1270 cm)	1077 cm (424")	673 cm (265")	18.8 m (61' 7")	22.5 m (73' 11")	Ð16 cm (Ð6 5/16")
400" (1016 cm)	862 cm (339")	538 cm (212")	15.0 m (49' 3")	18.0 m (59' 2")	Ð13 cm (Ð5 3/64")
300" (762 cm)	646 cm (254")	404 cm (159")	11.3 m (37' 0")	13.5 m (44' 4")	Ð10 cm (Ð3 51/64")
250" (635 cm)	538 cm (212")	337 cm (132")	9.4 m (30' 10")	11.3 m (37' 0")	Ð8 cm (Ð3 5/32")
200" (508 cm)	431 cm (170")	269 cm (106")	7.5 m (24' 8")	9.0 m (29' 7")	Ð6 cm (Ð2 17/32")
150" (381 cm)	323 cm (127")	202 cm (79")	5.6 m (18' 6")	6.8 m (22' 2")	Ð5 cm (Ð1 57/64")
120" (305 cm)	258 cm (102")	162 cm (64")	4.5 m (14' 9")	5.4 m (17' 9")	Ð4 cm (Ð1 33/64")
100" (254 cm)	2[illegible] cm (85")	135 cm (5[illegible]")	3.8 m (12' 4")	4.5 m (14' 9")	Ð3 cm (Ð1 17/[illegible]")
80" (203 cm)	172 cm (68")	108 cm (42")	3.0 m (9' 10")	3.6 m (11' 10")	Ð3 cm (Ð1 [illegible]")
60" (152 cm)	129 cm (51")	81 cm (32")	2.3 m (7' 5")	2.7 m (8' 10")	Ð2 cm (Ð[illegible]")
40" (102 cm)	86 cm (34")	54 cm (21")	1.5 m (4' 11")	1.8 m (5' 11")	Ð1 cm [illegible]

The formula for picture size and projection distance

[m/cm]

L1 (m) = 0.03755 χ

L2 (m) = 0.04507 χ

H (cm) = [illegible]

[Feet/inches]

L1 (ft) = 0.03755 χ / 0.3048

L2 (ft) = 0.04507 χ / 0.3048

H (in) = 0.03209 χ / 2.54

4:3 Signal Input (Normal Mode)

Picture (Screen) size			Projection distance [L]		Distance from the lens center to the bottom of the image [H]
Diag. [χ]	Width	Height	Minimum [L1]	Maximum [L2]	
400" (1016 cm)	813 cm (320")	[illegible] (240")	[illegible] m (55' 9")	20.4 m [illegible]	Ð15 cm (Ð5 23/[illegible]")
300" (762 cm)	610 cm (240")	457 cm (180")	[illegible]8 m (41' 10")	15.3 m (50' [illegible])	[illegible]
250" (635 cm)	508 cm (200")	381 cm (150")	10.6 m (34' 10")	12.8 m (41' 10")	Ð9 cm [illegible]
200" (508 cm)	406 cm (160")	305 cm (120")	8.5 m (27' 11")	10.2 m (33' 6")	Ð7 cm [illegible]
150" (381 cm)	305 cm (120")	[illegible]	6.4 m (20' 11")	7.7 m (25' 1")	[illegible]
120" (305 cm)	244 cm (96")	183 cm [illegible]	5.1 m (16' 9")	6.1 m (20' 1")	Ð4 cm [illegible]
100" (254 cm)	203 cm (80")	152 cm (60")	4.3 m (13' 11")	5.1 m (16' 9")	Ð4 cm (Ð1 7/16")
80" (203 cm)	163 cm (64")	122 cm (48")	3.4 m (11' 2")	4.1 m (13' 5")	Ð3 cm (Ð1 9/[illegible]")
70" (178 cm)	142 cm (56")	107 cm (42")	3.0 m (9' 9")	3.6 m (11' 9")	Ð3 cm [illegible]
60" (152 cm)	122 cm (48")	91 cm (36")	2.6 m (8' 4")	3.1 m (10' 1")	Ð2 cm [illegible]
40" (102 cm)	81 cm (32")	61 cm (24")	1.7 m (5' 7")	2.0 m (6' 8")	Ð1 cm [illegible]

χ: Picture size (diag.) (in/cm)
L: Projection distance (m/ft)
L1: Minimum projection distance (m/ft)
L2: Maximum projection distance (m/ft)
H: Distance from the lens center to the bottom of the image (cm/in)

The formula for picture size and projection distance

[m/cm]

L1 (m) = [illegible]

L2 (m) = [illegible]

H (cm) = [illegible]

[Feet/inches]

L1 (ft) = 0.0425 [illegible]

L2 (ft) = 0.05102 χ / 0.3048

H (in) = 0.03633 χ / 2.54

Note

- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.
- See page 18 about projection distance [L] and distance from the lens center to the bottom of the image [H].

Replacing the Lamp

Caution Concerning the Lamp

This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and frequency of use. It is important to note that failure can often result in the bulb cracking.

IMPORTANT NOTE TO U.S. CUSTOMERS: The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277).

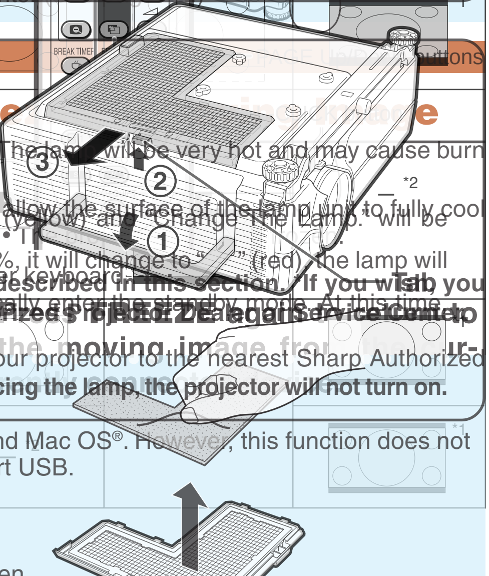
U.S.A. ONLY

Hg LAMP CONTAINS MERCURY For State Lamp Disposal Information www.lamprecycle.org or 1-800-BE-SHARP

Replacing the Lamp

Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burns or injury.
- Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.



* If the new lamp does not illuminate after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair.

This function only works with the Microsoft® Windows® OS and Mac OS®. However, this function does not work with the following operation systems that do not support USB.

- Versions earlier than Windows® 95
- Versions earlier than Windows® NT4.0
- Versions earlier than Mac OS® 8.5

- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Replacing the Lamp Unit

Warning!

- Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

1 Press STANDBY/ON on the projector or STANDBY on the remote control to put the projector into standby mode.

- Wait until the cooling fan stops.

2 Disconnect the power cord.

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).

3 Remove the lamp unit cover.

4 Remove the lamp unit.

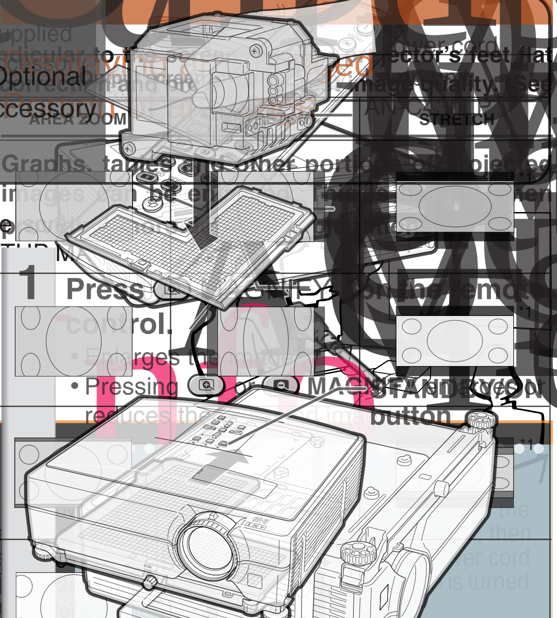
Hold the lamp unit and pull it out in the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.

6 Replace the filter cover.

- Slide the filter cover in the direction of the arrow to close it.

Note

- Ensure the filter cover is securely installed. The power will not turn on unless it is correctly installed.



1 Press MAGNIFY on the remote control.

- Enlarges the image.
- Pressing MAGNIFY reduces the image.

2 Press RETURN on the remote control to cancel the operation.

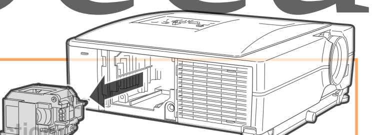
- The magnification returns to ×1.

Note

- The selectable magnifications differ depending on the input signal.
- In the following cases, the image will return to normal size (×1).
  - When switching the INPUT mode.
  - When RETURN has been pressed.
  - When the input signal is changed.
  - When the input signal resolution and refresh rate (vertical frequency) change.
  - When the Resize mode is changed.
  - When the Picture mode is changed.

About Copyrights

When using the RESIZE function to select an image size with a different aspect ratio to a TV program or video image, the image will look different from its original appearance. The use of the Resize or Keystone Correction function to compress or stretch the image for commercial purposes/public display in a café, hotel, etc. may be an infringement of rights of copyright holders protected by law. Please use caution.



Info

- **Direct Power Off function**

You can unplug the power cord from the AC outlet even if the cooling fan is still running.

Regarding the Indicators

Replacing the Lamp

Lamp

■ The remaining lamp life (percentage) can be checked with the on-screen display. See page 53.

IMPORTANT NOTE TO U.S. CUSTOMERS:

The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277).

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Caution Concerning the Lamp

■ This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time.

■ The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.

■ When the lamp replacement indicator and on-screen display icon are illuminated, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.

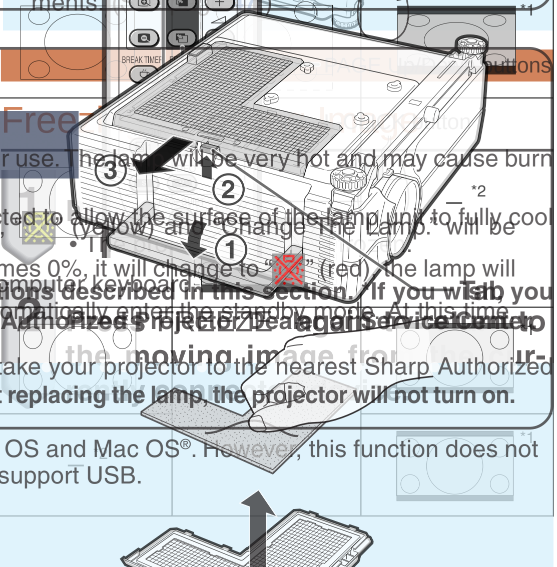
■ Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult a doctor as soon as possible.

■ Should the lamp break, there is also a possibility that glass particles may spread inside of the projector. In this case, it is recommended you contact your nearest Sharp Authorized Projector Dealer or Service Center to assure safe operation.

■ About the temperature warning indicator

If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP" will light up in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the temperature warning indicator will blink, the cooling fan will run for a further 90 seconds, and then the projector will enter standby mode.

Replacing the Lamp



Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burn or injury.
- Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.

Change The Lamp.

■ When the remaining lamp life becomes 5% or less, the " " (yellow) and "Change The Lamp." will be displayed on the screen. When the percentage becomes 0%, it will change to " " (red), the lamp will automatically turn off and then the projector will automatically enter the standby mode. At this time, the lamp indicator will illuminate in red.

■ Carefully change the lamp by following the instructions described in this section. *If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.

* If the new lamp does not illuminate after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center.

■ If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

Note

- This function only works with the Microsoft® Windows® OS and Mac OS®. However, this function does not work with the following operation systems that do not support USB.
  - Versions earlier than Windows® 95
  - Versions earlier than Windows® NT4.0
  - Versions earlier than Mac OS® 8.5
- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Maintenance indicator		Problem	Cause	Possible solution
Normal	Abnormal			
			• Blocked air intake	• Relocate the projector to an area with proper ventilation (see page 8).

Info

- If the temperature warning indicator illuminates and the projector enters the standby mode, check whether any of the ventilation holes are blocked (see page 8) and then try turning the power back on. Wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 10 minutes.)
- If the power is turned off for a brief moment due to power outage or some other cause while using the projector, and the power supply recovers immediately after that, the lamp indicator will illuminate in red and the lamp may not be lit. In this case, unplug the power cord from the AC outlet, replace the power cord in the AC outlet and then turn the power on again.
- The cooling fan keeps the internal temperature of the projector constant and this function is controlled automatically. The sound of the cooling fan may change during operation because the fan speed may change and this is not a malfunction.

Note

- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image [H] is a negative number, this indicates that the bottom of the image is below the lens center.
- See page 18 about projection distance [L] and distance from the lens center to the bottom of the image [H].

Info

- If you want to clean the air vents during projector operation, ensure you press **STANDBY/ON** on the projector or **STANDBY** on the remote control and put the projector into standby mode. After the cooling fan has stopped, unplug the power cord from the AC socket and clean the vents.

¥The air filters should be cleaned every 100 hours of use. Clean the filters more often when the projector is used in a dusty or smoky location.

Lamp

IMPORTANT NOTE TO U.S. CUSTOMERS:

The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277).

Hg LAMP CONTAINS MERCURY. For State Lamp Disposal Information www.lamprecycle.org or 1-800-BE-SHARP

U.S.A. ONLY

Caution Concerning the Lamp

- This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.
- When the lamp replacement indicator and on-screen display icon are illuminated, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.
- Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult a doctor as soon as possible.
- Should the lamp break, there is also a possibility that glass particles may spread inside of the projector. In such a case, it is recommended you contact your nearest Sharp Authorized Projector Dealer or Service Center to assure safe operation.

Replacing the Lamp

Caution

- Do not remove the lamp unit from the projector right after use. The lamp will be very hot and may cause burns or injury.
- Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.

- Carefully change the lamp by following the instructions described in this section. *If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.

* If the new lamp does not illuminate after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair.

This function only works with the Microsoft® Windows® OS and Mac OS®. However, this function does not work with the following operation systems that do not support USB.

- Versions earlier than Windows® 95
- Versions earlier than Windows® NT4.0
- Versions earlier than Mac OS® 8.5
- You cannot use this function when displaying the menu screen.
- Confirm that the computer recognizes the USB connection.

Warning!

- Do not remove the lamp unit from the projector right after use. The lamp and parts around the lamp will be very hot and may cause burn or injury.

Info

- Do not touch the glass surface of the lamp unit or the inside of the projector.
- To avoid injury to yourself and damage to the lamp, make sure you carefully follow the steps below.
- Do not loosen other screws except for the lamp unit cover and lamp unit.

1 **Press STANDBY/ON on the projector or STANDBY on the remote control to put the projector into standby mode.**

- Wait until the cooling fan stops.

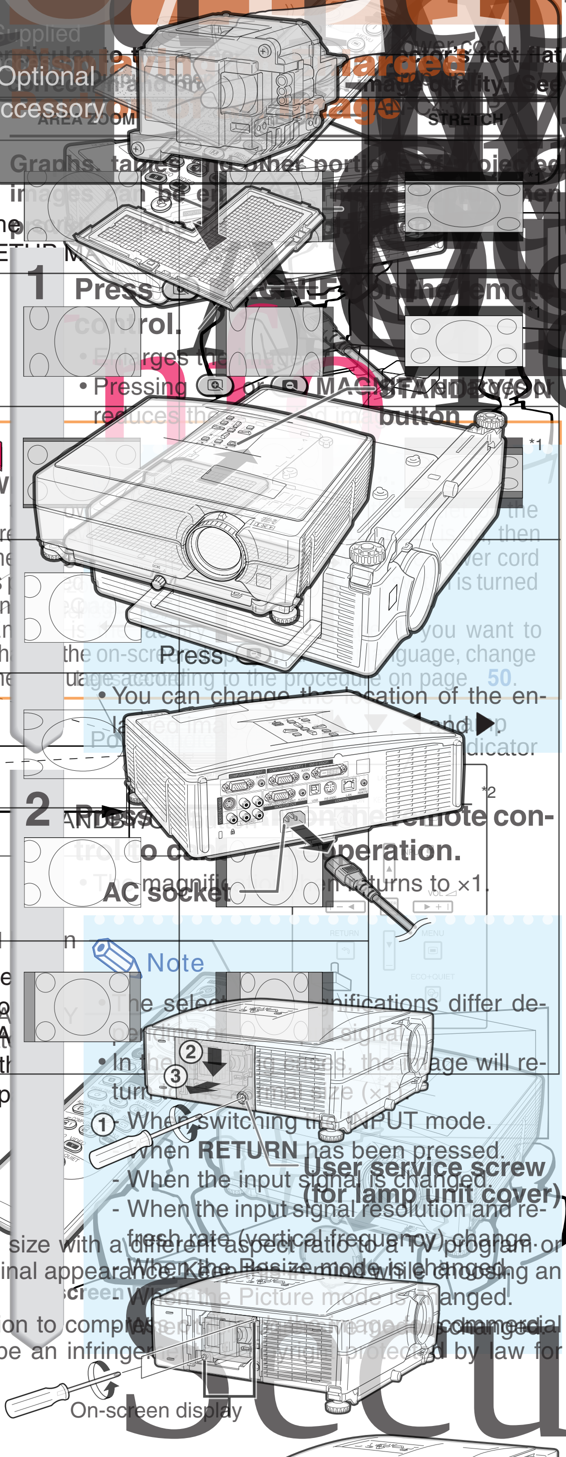
2 **Disconnect the power cord.**

- Unplug the power cord from the AC socket.
- Leave the lamp until it has fully cooled down (about 1 hour).

3 **Remove the lamp unit cover.**

4 **Remove the lamp unit.**

In the direction of the arrow. At this time, keep the lamp unit horizontal and do not tilt it.



Info

- **Direct Power Off function**
You can unplug the power cord from the AC outlet even if the cooling fan is still running.

Troubleshooting

Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	• If the picture is normal, the sound is due to cabinet shrinkage	
Maintenance indicator illuminates or blinks in red.	• See "Maintenance Indicators".	59
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	• The keylock is set. If the keylock is set to ON, all the buttons are locked.	53
Picture is green with component input signals (COMPUTER/COMPONENT 1, 2, DVI-D).	• Change the input signal type setting.	47
Picture is pink (no green) with RGB input signals (COMPUTER/COMPONENT 1, 2, DVI-D).		
Picture is too bright and whitish.	• Image adjustments are	37
The black levels of the image show banding or appear faded when DVI-D is selected.	• Select the Dynamic Range setting (Standard or Enhanced) that results in the best picture quality.	48
The cooling fan becomes noisy.	• When the temperature inside the projector increases, the cooling fan speed increases.	
The lamp does not light up even after the projector turns on.	• Replace the lamp.	59
The lamp suddenly turns off during projection.		
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly. • If this happens frequently replace the lamp.	23-29 62
The lamp takes a long time to turn on. Picture is dark.	• The lamp will eventually need to be changed.	62
The remote control cannot be used.	• The remote control is too far away from the projector. • If direct sunlight or a strong fluorescent light is shining on the projector's remote control sensor, place the projector where it will not be affected by strong light. • Make sure the batteries are inserted correctly or insert new ones.	15

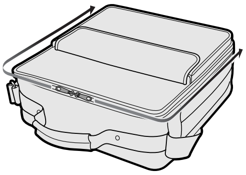
This projector is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the projector and plug it in again after more than 5 minutes.

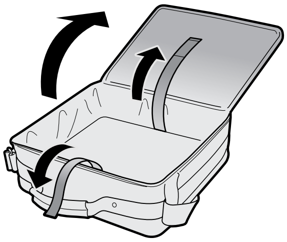
Storing the Projector

How to Use the Storage Case

When storing the projector, attach the lens cap to the lens, and place it in the supplied storage case.

1 **Open the cover of the storage case.**

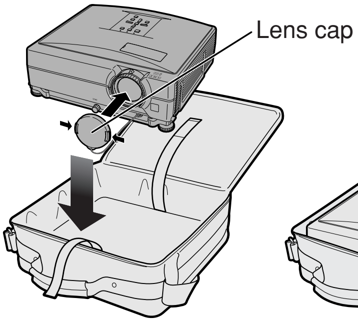


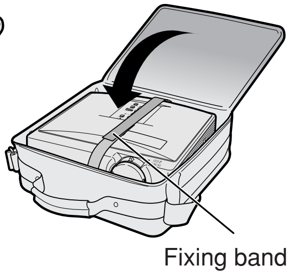


2 **Place the projector into the storage case.**

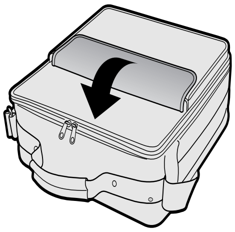
Info

- Ensure the projector has cooled down sufficiently before placing it in the case.
- Ensure the lens cap is attached to the lens for protection.
- **Place the projector into the storage case with the lens facing the handle.**
- Ensure the projector is held in place by using the fixing band.

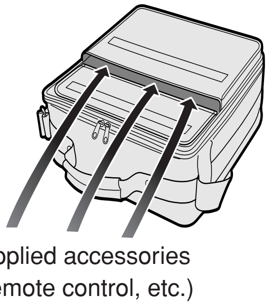




3 **Close the cover of the storage case.**



4 **Place the accessories in the front pocket of the storage case.**

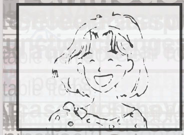
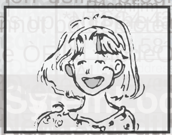
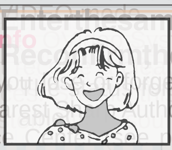


Problem	Check	Page
An unusual sound is occasionally heard from the cabinet.	If the picture is normal, the sound is due to cabinet shrinkage caused by room temperature changes. This will not affect operation or performance.	—
Maintenance indicator illuminates or blinks in red.	• See "Maintenance Indicators".	59
The projector cannot be turned on or put into the standby mode using the STANDBY/ON button on the projector.	• The keylock is set. If the keylock is set to ON, all the buttons are locked.	53
Picture is green with component input signals (COMPUTER/COMPONENT 1, 2, DVI-D).	• Change the input signal type setting.	47
Picture is pink (no green) with RGB input signals (COMPUTER/COMPONENT 1, 2, DVI-D).		
Picture is too bright and whitish.	• Image adjustments are incorrectly set.	45
The black levels of the image show banding or appear faded when DVI-D is selected.	• Select the Dynamic Range setting ("Standard" or "Enhanced") that results in the best picture.	48
The cooling fan becomes noisy.	• When temperature inside the projector increases, the cooling fan speed becomes faster.	
The lamp does not light up even after the projector turns on.	• Replace the lamp.	59
The lamp suddenly turns off during projection.		
The image sometimes flickers.	• Cables incorrectly connected to the projector or the connected equipment works improperly. • If this happens frequently, replace the lamp.	23-29 62
The lamp takes a long time to turn on. Picture is dark.	• The lamp will eventually need to be changed. The lamp has reached the end of its life. Replace the lamp.	62
The remote control cannot be used.	• Operate the remote control while pointing at the remote control sensor. • The remote control may be too far away from the projector. • If direct sunlight or a strong fluorescent light is shining on the projector's remote control sensor, place the projector where it will not be affected by strong light. • The batteries may be depleted or inserted incorrectly. Make sure the batteries are inserted correctly or insert new ones.	15

This projector is equipped with a microprocessor. Its performance could be adversely affected by incorrect operation or interference. If this should happen, unplug the projector and plug it in again after more than 5 minutes.

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Troubleshooting

Problem	Check	Page
No picture and no sound or projector does not start.	• External connected devices is off. • The selected input mode is wrong. • AV MUTE function is working. • Cables incorrectly connected to the rear panel of the projector. • Remote control batteries have run down. • External output has not been set when connecting notebook computer. • The lamp unit cover is not installed correctly. • If the connected DVI digital equipment is turned on before the projector, the image may not be projected properly or may not be displayed at all. Ensure that the appropriate input mode is selected on the projector before you turn on the connected equipment.	— 34 34 23-29 15 23 60 —
Sound is heard but no picture appears.	• Cables incorrectly connected to the rear panel of the projector. • "Bright" is set to minimum position. • Depending on the computer you are using, an image may not be projected unless the signal output setting of the computer is switched to the external output. Refer to the computer's operation manual for how to switch the computer's settings.	23-29 45 —
Color is faded or poor.	• Picture adjustments are incorrectly set. • Video input system is incorrectly set. • Input signal type (RGB/Component) is incorrectly set.	45 48 47
Picture is blurred; noise appears.	• Adjust the focus. • The projection distance exceeds the focus range. • Condensation has formed on the lens. If the projector is carried from a cold location into a warm room, or if the room temperature rises suddenly, condensation may form on the surface of the lens. This will cause the image to become blurred. Please wait until condensation disappears (approximately one hour) before it is to be used. If condensation should form, unplug the power cord from the wall outlet and wait for it to dry. (Computer input only) • Perform "SIG-ADJ" Adjustments. • Noise may appear depending on the computer.	33 19 — 47 —
Picture appears but no sound is heard.	• Cables incorrectly connected. • Volume is set to minimum. • Turn up the volume of the external device. • "Speaker" is set to "Off".	23-29 34 — 51
Data image is not centered.	• Make the necessary adjustments using the "Network" menu.	47
	• Depending on the computer you are using, the output resolution signal may be different from the one you have set. For details, refer to the operation manual of the computer.	—

For SHARP Assistance

If you encounter any problems during setup or operation of this projector, first refer to the "Troubleshooting" section on pages 66 and 67. If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

U.S.A.
Sharp Electronics Corporation
1-888-GO-SHARP (1-888-467-4277)
lcdsupport@sharpsec.com
http://www.sharpusa.com

Canada
Sharp Electronics of Canada Ltd.
(905) 568-7140
http://www.sharp.ca

Mexico
Sharp Electronics Corporation Mexico Branch
(525) 716-9000
http://www.sharp.com.mx

Latin America
Sharp Electronics Corp. Latin American Group
(305) 264-2277
www.servicio@sharpsec.com
http://www.siempresharp.com

Germany
Sharp Electronics (Europe) GMBH
01805-234675
http://www.sharp.de

U.K.
Sharp Electronics (U.K.) Ltd.
08705 274277
http://www.sharp.co.uk/customersupport

Italy
Sharp Electronics (Italy) S.P.A.
(39) 02-89595-1
http://www.sharp.it

France
Sharp Electronics France
01 49 90 35 40
hotlineced@sef.sharp-eu.com
http://www.sharp.fr

Spain
Sharp Electronica Espana, S.A.
93 5819700
sharplcd@sees.sharp-eu.com
http://www.sharp.es

Switzerland
Sharp Electronics (Schweiz) AG
0041 1 846 63 11
cattaneo@sez.sharp-eu.com
http://www.sharp.ch

Sweden
Sharp Electronics (Nordic) AB
(46) 8 6343600
vision.support@sen.sharp-eu.com
http://www.sharp.se

Austria
Sharp Electronics (Europe) GMBH Branch Office Austria
0043 1 727 19 123
pogats@sea.sharp-eu.com
http://www.sharp.at

Benelux
SHARP Electronics Benelux BV
0900-SHARPCE (0900-7427723)
Nederland
9900-0159 Belgium
http://www.sharp.nl
http://www.sharp.be
http://www.sharp.lu

Australia
Sharp Corporation of Australia Pty. Ltd.
1300-135-022
http://www.sharp.net.au

New Zealand
Sharp Corporation of New Zealand
Phone: (09) 573-0111
Fax: (09) 573-0112
http://www.sharp.net.nz

Singapore
Sharp-Roxy Sales (S) Pte. Ltd.
65-226-6556
ckng@srs.global.sharp.co.jp
http://www.sharp.com.sg

Hong Kong
Sharp-Roxy (HK) Ltd.
(852) 2410-2623
dcmktg@srh.global.sharp.co.jp
http://www.sharp.com.hk

Taiwan
Sharp Corporation (Taiwan)
0800-025111
http://www.sharp-scot.com.tw

Malaysia
Sharp-Roxy Sales & Service Co.
(60) 3-5125678

U.A.E.
Sharp Middle East Fze
971-4-81-5311
helpdesk@smef.global.sharp.co.jp

Thailand
Sharp Thebnakorn Co. Ltd.
02-236-0170
svc@stcl.global.sharp.co.jp
http://www.sharp-th.com

Korea
Sharp Electronics Incorporated of Korea
(82) 2-3660-2002
lcd@sharp-korea.co.kr
http://www.sharpkorea.co.kr

India
Sharp Business Systems (India) Limited
(91) 11- 6431313
service@sharp-oa.com

Specifications

Display devices	[illegible]
Resolution	[illegible]
Lens	[illegible]
Input terminals	DVI-D (Compatible with HDCP) Computer/Component (mini D-sub 15 pin) S-Video (mini DIN 4 pin) Video (RCA) Audio (ø3.5 mm stereo minijack) Audio (RCA)
Output terminals	Computer/Component (mini D-sub 15 pin) Audio (ø3.5 mm stereo minijack) (variable audio output)
Control and communication terminals	LAN (RJ-45) USB (Type B) RS-232C (mini DIN 9 pin) Wired Remote (ø3.5 mm stereo minijack)
Speakers	2 W (mono)
Projection lamp	275 W
Rated voltage	AC 100–240 V
Rated frequency	50/60 Hz
Input current	[illegible]
Power consumption (Standby)	360 W (4 W) with AC 100 V 345 W (4.4 W) with AC 240 V
Operation temperature	+41°F to +95°F (+5°C to +35°C)
Cabinet	Plastic
Dimensions (main body only)	[illegible] × 101.5 × 279.5 mm)
Weight (approx.)	10.8 lbs. (4.9 kg)

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